

## A Provisional List of Uredinales of Korea

Kim, Chong Jin  
(Chunchōn Agricultural College)

## 韓國產銹菌目錄

金 鍾 鎮  
(春川農科大學)

## SUMMARY

The study on Uredinales of Korea was initiated by P. Hennings in 1899. After that abundant works were done by Naohide Hiratsuka. And Seiya Ito, P. & H. Sydow, K. Nakata, S. Takimoto, A. L. Jaczewski, V. L. Komarov, W. A. Tranzschel and others also engaged in the research on this field.

Since 1956 the author has collected the specimen in South Korea, chiefly around Prov. Kangwōn, among which are found 12 species 4 genera of rusts and 22 species of additional hosts all unrecorded from Korea.

The author has described in the paper 220 species 32 genera 3 families of rusts in Korea, including those collected by this author.

This works, it must be added, owe much to the literatures of Dr. Naohide Hiratsuka, Prof. of Tokyo University of Education. The author express his hearty thanks to him.

## Fam. MELAMPSORACEAE

*Uredinopsis* Magnus

*Uredinopsis adianti* Komarov in Jaczewski, Komarov et Tranzschel, *Fung. Ross. exsicc.* no. 278, 1899. II, III. *Adiantum pedatum*. L. (Kongjak-Gosari) (Pochōn-Myōn, Hesān-Gun).

*Uredinopsis filicina* (Niessl) Magnus in Attid. Congr. Bot. Internat. Geneva (1892), p. 167 & pl. IX, figs. 1-13, 1893. II, III. *Dryopteris phegopteris* C. Chr. (Karai-Gosari) (Mt. Kūmgang).

*Uredinopsis hiroasakiensis* Kamei et Hiratsuka, f. in Kamei in *Transact. Sapporo Nat. Hist. Soc.* XII, p. 164, 1932. II, III. *Dryopteris thelypteris* A. Gray (Chōnyō-Gosari) (Wōnsan, Mt. Kūmgang).

*Uredinopsis Kameiana* Faull in *Contrib. Arnold Arboretum, Harvard Univ.* XI, p. 82 & pl. IV, fig. 20 (2-d), 1938. II, III. *Pteridium aquilium* Kuhn var. *japonicum* Nakai (Kosari) (Chuul-Eup, Kyōngsōng-Gun).

*Uredinopsis ossiformis* Kamei in *Transact. Sa-*

pporo Nat. Hist. Soc. XII, p. 167, 1932. (sub nom. "*Uredinopsis ossaeiformis*"). II, III. *Dryopteris dilatata* A. Gray var. *oblonga* Takeda (Kīnphōjin-Gosari) (Mt. Kūmgang)

*Uredinopsis pteridis* Dietel et Holway ex Dietel in *Br. Deutsch. Bot. Ges.* XIII, p. 331, 1895. II, III. *Pteridium aquilium* Kuhn var. *japonicum* Nakai (Kosari) (Mt. Kūmgang).

*Milesina* Magnus

*Milesina carpatorum* Hylander. Jørstad et Nannfeldt in *Opera Bot.* I, p. 28, 1953. (*Milesina carpatica* Wróblewski ex Hiratsuka, f., 1935). II, III. *Dryopteris crassirhizoma* Nakai (Kwanjung) (Mt. Kūmgang).

*Milesina coreana* Hiratsuka, f. in *Trans. Tottori Soc. Agr. Sci.* V, p. 233, 1935; *Mem. Tottori Agr. Coll.* IV, p. 156, 1936. II. *Dryopteris varia* O. Kuntze (= *Polystichum varium* presl) (Chokchebi-Gosari) (Mt. Kūmgang).

*Milesina exigua* (Faull) Faull ex Hiratsuka, f., *Monogr. Pucciniestr.*, p. 104, 1936. II, III. *Polystichum tripterum* Presl (Sipcha-Gosari) (Mt. Kū-

The names of plants and places in Korean were transcribed in English in accordance with the the Romanization System proposed by the Ministry of Education R. O. K.

mgang).

*Milesina fructuosa* (Fauil) Hiratsuka, f., Monogr. Pucciniastr., p. 115, 1936. II, III. *Dryopteris subtripinnata* O. Kuntze (*Aigi-Jokchebi-Gosari*) (Seoul).

#### *Hyalospora* Magnus

*Hyalospora aspidiotus* Magnus in Ber. Deutsch. Bot. Ges. XIX p. 582, 1901. II, III. *Dryopteris Linnaeana* C. Chr. (*Thoggi-Gosari*) (Chaya-Ryöng. Prov. Hambuk).

*Hyalospora hakodatensis* Hiratsuka; f. Monogr. Pucciniastr., p. 171, 1936. II, III. *Athyrium acrostichoides* Diels (*Thöi-Gosari*) (Mt Kūmgang).

#### *Melampsoridium* Klebahn

*Melampsoridium alni* (Thümen) Dietel in Egler-Prantl, Natürl. Pflanzenfam. I, 1. Abt. \*\*, p. 551, 1900. II, III. *Alnus Maximowiczii* Call. (*Tame-Ori-Namu*) (Chuül-Eup, Kyöngsöng-Gun).

*Melampsoridium hiratsukanum* S. Ito ex Hiratsuka, f. in Jour. Facul. Agric. Hokkaido Imp. Univ. XXI, p. 9, 1927. II, III. (*Alnus hirsuta* Turcz. var. *sibirica* (Fischer) C. K. Schn. (= *A. sibirica* Fischer; *A. incana* var. *sibirica* Spach.; *A. incana* var. *glauca* Regel) (*San-Ori-Namu*) (*Cultivated*) (Seoul). *A. japonica* Sieb. et Zucc. (*Ori-Namu*) (Söhül-Myön, Pochön-Gun). *A. sp.* (Yönghüng, Yönghüng-Gun).

#### *Melampsorella* Schröter

*Melampsorella caryophyllacearum* Schröter in Hedwigia, XIII, p. 85, 1874. II, III. *Cerastium caespitosum* Gilib. var. *glandulosum* Wirtgen. (= *C. vulgatum* L. var. *glandulosum* Regel) (*Chöm-Nado-Namul*) (Mt. Kūmgang).

#### *Pucciniastrum* Otth

*Pucciniastrum agrimoniae* (Diet.) Tranzschel in Script. Bot. Hort. Univ. Petropol. IV, p. 301, 1895. II, III. *Agrimonia Eupatoria* L. var. *pilosa* Makino (= *A. pilosa* Ledeb. var. *japonica* Nakai) (*Chipsin-Namul*) (Seoul; Mt. Tairyong, Chunsöng-Gun\*; Mt. Odai, Prov. Kangwön\*).

*Pucciniastrum castaneae* Dietel in Hedwigia XLI, p. (178), 1902. II, III. *Castanea pubinervis* Schneid. (= *C. crenata* Sieb. et Zucc.) (*Pam-Namu*) (Seoul, Tangjin).

*Pucciniastrum circaeae* (Wint.) Spegazzini ex De-Toni in Saccardo, Syll. Fung. VII, P. 763, 1893. II, III. *Circaea alpina* L. (*Chwitöl-Isül*)

(Pochön-Myön, Hesan-Gun).

*Pucciniastrum coryli* Komarov in Jaczewski, Komarov & Tranzschel, Fung. Ross. exsicc., no. 257, 1899. II, III. *Corylus heterophylla* Fisch. var. *japonica* Koidz. (*Kaiam-Namu*) (Seoul, Mt. Kūmgang). *C. Mandshurica* Maxim. (*Mul-Gaiam-Namu*) (Mt. Kūmgang).

*Pucciniastrum epilobii* Otth in Mitteil. Naturforsch. Ges. Bern, LXXI, p. 72 & 84, 1861. II, III. *Epilobium angustifolium* L. (*Punhong-Banul-Got*) (Chuül-Eup Kyöngsöng-Gun). *E. sp.* (Pochön-Myön, Hesan-Gun).

*Pucciniastrum potentillae* Komarov in Jaczewski Komarov & Tranzschel Fung. Ross. exsicc., no. 327, 1899. II, III. *Potentilla flagarioides* L. var. *Sprengeliana* Maxim. (*Yangji-Got*) (Mt. Kūmgang)

*Pucciniastrum pyrolae* Dietel ex Arthur, N. Amer. Fl. VII, p. 108, 1907. II, III. *Pirola renifolia* Maxim. (*Khongphat-Norubal*) (Pochön-Myön, Hesan-Gun).

*Pucciniastrum tiliae* Miyabe ex Hiratsuka in Bot. Mag. Tokyo, XI, p. 47 & pl. IV; figs. 12-20, 1897. II, III. *Tilia amurensis* Kom. (*Talphi-Namu*) (Chuül-Eup, Kyöngsöng-Gun).

#### *Thekopsora* Magnus

*Thekopsora asterum* Tranzschel, Conspect. Ured. URSS, p. 380, 1939. (*Thekopsora asteridis* Tranzschel ex Hiratsuka f., 1936). II, III. *Aster hispidus* Thunb. (*Kait-Suk-Pujangi*) (Wönsan).

*Thekopsora brachybotrydis* Tranzschel in Ann. Myc. V, p. 551, 1907. II, III. *Trigonotis radicans* Maxim. (*Cham-Gotmari*) (Pochön-Myön, Hesan-Gun).

*Thekopsora guttata* (Schröt.) P. et H. Sydow, Monogr. Urec. III, p. 467, 1915. II, III. *Ga'ru' verum* L. var. *leiocarpum* Ledeb. (*Sol-Namul*) (Mt. Kūmgang).

*Thekopsora rubiae* Komarov in Jaczewski, Komarov & Tranzschel, Fung. Ross. exsicc., no. 328, 1899. II, III. *Rubia chinensis* Regel et Maack (*Khün-Goktusöni*) (Mt. Kūmgang; Mt. Odai, Prov. Kangwön\*). *R. cordifolia* L. var. *pratensis* Maxim. (*Kalkhi-Goktusöni*) (Seoul).

*Thekopsora vaccinii* (Wint.) Hiratsuka f., Ured. Stud., p. 260, 1955. (*Thekopsora myrtilina* Karsten 1879; *Th. vaccinatorum* Karsten, 1879). II, III. *Vaccinium uliginosum* L. (*Tuldchuk-Namu*) (Phu-

Of the distributions, the place-name which marks \* shows the place where the author collected the specimen.

ngsan-Myön, Phungsan-Gun) *V. Vitis-Idaea* L. (*Wölgylul*) (Pochön-Myön, Hesang-Gun)

*Calyptospora* Kühn

*Calyptospora goeppertiana* Kühn in Hedwigia, VIII, p. 81, 1869. III. *Vaccinium Vitis-Idaea* L. (*Wölgylul*) (Ungi-Myön, Phungsan-Gun).

*Melampsora* Castagne

*Melampsora euphorbiae-dulcis* Otth in Mitteil. Naturforsch. Ges. Bern (1868), p. 70, 1869. O, I, II, III. *Euphorbia Pekinensis* Rupr. var. *japonensis* Makino (*Taigük*) (Yongyeun-Myön, Ongjin-Gun).

*Melampsora hypericorum* Winter, Pilze Deutschl. I. p. 241, 1882. (*Melampsora hypericorum* Schröt., 1872; *M. hypericorum* Dietel, 1922). I, III. *Hypericum erectum* Thunb. (*Kochu-Namul*) (Seoul).

*Melampsora Kusanoi* Dietel in Bot. Jahrb. X XXVII, p. 104, 1905. II, III. *Hypericum Ascyron* L. (*Mulle-Namul*) (Mt. Kümgang).

*Melampsora larici-capraearum* Klebahn in Forstl. Naturw. Zeitschr. VI, p. 467, 1897. II, III. *Salix hallaisanensis* Lévl. var. *orbicularis* Nakai (*Horang-pödü*) (Chayu-Ryöng, Prov. Hambuk; Pömö-Sa, Tongrai-Gun).

*Melampsora larici-epitea* Klebahn in Zeitschr. f. Pflanzenkr. IX p. 83 & fig. 3, 1899. II, III. *Salix viminalis* L. (*Yukchi-Got-Pödü*) (Phungsan Myön, Phungsan-Gun; Chuül-Eep, Kyöngsöng-Gun)

*Melampsora larici-populina* Klebahn in Zeitschr. f. Pflanzenkr. XII, p. 43, 1902. II, III. *Populus nigra* L. var. *italica* Du Roi (*Yang-Pödü*) (*Cultivated*) (Seoul, Suwön, Tangjin).

*Melampsora magnusiana* Wagner ex Klebahn in Zeitschr. f. Pflanzenkr. VII, p. 340-342, 1897. II, III. *Populus davidiana* Dode (*Sasi-Namu*) (Sönheung-Myön, Yöngheung-Gun; Chuül-Eup, Kyöngsöng-Gun).

*Phakopsora* Dietel

*Phakopsora ampelopsidis* Dietel et P. Sydow in Dietel in Hedwigia, XXXVII, p. 217, 1898. II, III. *Ampelopsis heterophylla* Sieb. et Zucc. (*Kai-Möru*) (Distr. Unknown). *Pathenocissus thunbergii* Nakai (*Tamjaingi-Dönggul*) (Seoul). *Vitis vinifera* L. (*Podö*) (Seoul, Pusan, Waigwan, Kimje, Chunchön\*).

*Phakopsora artemisiae* Hiratsuka f. in Jap. Jour. Bot. III, p. 298, 1927. II, III. *Artemisia japonica* Thunb. (*Chebi-Suk*) (Chuül-Eup, Kyön-

gsöng-Gun)

*Phakopsora pachyrhizi* P. et H. Sydow in Ann. Myc. XII, p. 108, 1914. II, III. *Glycine Max* Merrill (*Khong*) (*Cultivated*) (Wönsan) *Pueraria hirsuta* Matsum. (*Chilk*) (Cheju Island; Taijön; Uchön-Myön, Hoengsöng-Gun\*; Mt. Tairyong, Chunsöng-Gun\*).

*Phakopsora zizyphi-vulgaris* Dietel in Ann. Myc. VIII, p. 469, 1910. II, III. *Zizyphus jujuba* Mill. var. *inermis* Rehd. (*Taichu-Namu*) (*Cultivated*) (Chunchön Oct. 16, 1961, C. J. Kim). New to Korea!

*Cronartium* Fries

*Cronartium flaccidum* (Alb. et Schw.) Winter Pilze Deutschl. I. p. 236, 1882. II, III. *Paeonia albiflora* Pall. var. *trichocarpa* Bunge (*Cham-Chakyak*) (*Cultivated*) (Seoul).

*Cronartium quercuum* Miyabe ex Shirai in Bot. Mag. Tokyo XIII, p. 74 & pl. IV-V, 1899. O. I. *Pinus densiflora* Sieb. et Zucc. (*So-Namo*) (Suwon Mt. Odai, Prov. Kangwön\*; Mt. Samhak, Chunsöng-Gun\*). II, III. *Quercus acutissima* Carruth. (*Sangsuri-Namu*) (Seoul). *Q. aliena* Bl. (*Kalcham-Namu*) (Sohül-Myön, Pochön-Gun) *Q. aliena* Bl. var. *acuteserrata* Maxim. (*Cholgal-Cham-Namu*) (Sohül-Myön, Pochön-Gun). *Q. aliena* Bl. var. *Pellucida* Bl. (*Chönggal Cham, Namu*) (Sohül-Myön, Pochön-Gun). *Q. dentata* Thunb. (*Ddökkaal-Namu*) (Sohül-Myön, Pochön-Gun). *Q. major* Nakai (*Kaljol-Cham-Namu*) (Sohül-Myön, Pochön-Gun). *Q. Mc-Cormickii* Carr. (*Dökchol-Cham-Namu*) (Seoul). *Q. mongolica* Fisch. (*Singal-Namu*) (Mt. Kümgang, *Q. serrata* Thunb. (*Chol-Cham-Namu*) (Mt. Kümgang, Tangjin).

*Cronartium ribicola* Fischer de Waldh. in Rabenhorst, Fung. eur. no. 1595, 1872; Hedwigia, XI, p. 182, 1872. O, I. *Pinus koraiensis* Sieb. et Zucc. (*Chat-Namu*) (Kapyöng-Gun).

*Chrysomyxa* Unger

*Chrysomyxa komarovii* Tranzschel, Consp. Ured. URSS p. 313, 1939. II, III. *Rhododendron mucronulatum* Turcz. var. *ciliatum* Nakai (*Thöl-Jindallai-Namu*) (Chayu-Ryong, Prov. Hambuk).

*Chrysomyxa rhododendri* De Bary in Bot. Zeitg. XXXVII, p. 809 & pl. X, figs. 1-6, 1879. II, III. *Rhododendron dauricum* L. (*San-Jindallai-Namu*) (Pochön-Myön, Hesang-Gun). *Rh. mucronulatum* Turcz. var. *ciliatum* Nakai (*Thöl-Jindallai*

*Namu*) (Chayu-Ryōng, Prov. Hambuk).

***Pucciniostele Tranzschel et Komarov***

***Pucciniostele mandshurica*** Dietel in Ann. Myc. II, p. 21, 1904. I, III. *Astilbe chinensis* Maxim. ex Fr. et Sav. var. *Davidii* Fr. (*Khūn-Noru-Ojum*) (Mt. Kūmgang, Phungsan-Gun) *A. chinensis* Maxim. ex Fr. et Sav. var. *typica* Fr. (*Noru-Ojum*) (Mt. Tairyong, Chunsōng Gun Jun. II, 1961; Mt. Sōlak Prov. Kangwōn Jul. 19, 1961; -C. J. Kim)

***Coleosporium Léveillé***

***Coleosporium asterum*** (Diet.) P. et H. Sydow in Ann. Myc. XII, p. 109, 1914. O, I. *Pinus densiflora* Sieb. et Zucc. (*So Namu*) (Mt. Tairyong Chunsōng-Gun, Jun. 11, 1961, C. J. Kim). II, III. *Aster altaicus* Willd. (*Kaisuk-Pujangi*) (Chunchōn, Oct. 18, 1959, C. J. Kim). *A. ageratoides* Turcz. (*San-Suk-Bujaingi*) (Chuūl-Eup, Kyōngsōng-Gun). *A. Scaber* Thunb. (*Cham-Chwi*) (Mt. Kūmgang; Mt. Odai, Prov. Kangwōn\*; Mt. Sōlak, Prov. Kangwōn\*). *A. tataricus* L. (*Kaimi-Chwi*) (Hamhūng; Kowōn-Eup, Kowōn-Gun; Mt. Tairyong, Chunsōng-Gun\*). *Callistephus chinensis* Nees. (*Kwa-Got*) (*Cultivated*) (Ungph-yōng-Myōn, Kilju-Gun).

***Coleosporium cacaliae*** Otth in Mitteil. Naturforsch. Ges. Bern (1865), p. 179, 1866. II, III. *Cacalia krameri* Matsum. (*Usan-Namul*) (Mt. Kūmgang; Mt. Tairyong, Chunsōng-Gun\*).

***Coleosporium campanulae*** Léveillé ex Kickx, Fl. Flandres. II, P. 54, 1867. II, III. *Adenophora divaricata* Franch. et Sav. var. *mandshurica* Kitagawa (*Khūn-Mosi-Namul*) (Nangok-Myōn, Hoeyang-Gun; Chuūl-Eup, Kyōngsōng-Gun). *Hanabusaya asiatica* Nakai (*Kūmgang-Chorong*) (Mt. Kūmgang; Mt. Sōlak, Prov. Kangwōn\*).

***Coleosporium cimicifugatum*** Thümen in Bull. Soc. Imp. Nat. Moscou. LIII, p. 222, 1878. II, III. *Cimicifuga simplex* Wormsk. var. *typica* Nakai (*Chottai-Sungma*) (Pochōn-Myōn, Hesang-Gun; Mt. Puk, Changjin-Gun).

***Coleosporium clematidis*** Barclay in Jour. Asiatic Soc. Bengal LIX pt. 2, p. 89 & pl. VI, figs. 3-5, 1890. II, III. *Clematis fusca* Turcz. subsp. *violacea* Kitagawa (*Suyōm-Jong-Dōnggul*) (Mt. Kūmgang). *C.* sp. (Yongyōn-Myōn Ongjin-Gun).

***Coleosporium clematidis-apiifoliae*** Dietel in Bot Jahrb. XXVIII, p. 287, 1900. II, III. *Clematis apiifolia* DC. (*Sawi-Jibang*) (Seoul).

***Coleosporium eupatorii*** Arthur ex Cummins in Mycologia. XLVIII, p. 603, 1956. II, III. *Eupatorium japonicum* Thunb. (*Tūnggol-Namul*) (Sohūl-Myōn, Pochōn-Gun; Mt. Tairyong, Chunsōng-Gun\*), *E. Lindleyanum* DC. (*Kol-Dūnggol-Namul*) (Sohūl-Myōn, Pochōn-Gun) *E. Lindleyanum* DC. var. *trifoliolatum* Makio (*Pōl-Dūnggol-Namul*) (Kyōngsōng-Myōn, Kyōngsōng-Gun).

***Coleosporium horianum*** Hennings in Hedwigia. XL, p. (25), 1901. II, III. *Codonopsis lanceolata* Benth. et Hook. fil. (*Tōdōk*) (Nangok-Myōn, Hoeyang-Gun; Chuūl-Eup, Kyōngsōng-Gun; Cheju Island).

***Coleosporium ligulariae*** Thümen in Bull. Soc. Imp. Nat. Moscou. LII, p. 140, 1877. II, III. *Ligularia stenocephala* Matsum. et Koidz. (*Kondalbi*) (Nangok-Myōn, Hoeyang-Gun).

***Coleosporium melampyri*** (Rebent.) Karsten Myc. Fenn. IV, p. 62, 1879. II, III. *Melampyrum latifolium* Nakai (*Sai-Myōnuri-Bappul*) (Mt. Kūmgang). *M. setaceum* Nakai var. *latifolium* Nakai (*Khūn-Aigi-Myōnuri-Bappul*) (Mt. Kūmgang)

***Coleosporium perillae*** P. Sydow in Hedwigia. XXXVIII, p. (141), 1899. II, III. *Perilla frutescens* Brit. (*Tūlgai*) (*Cultivated*) (Mt. Kūmgang; Suwōn; Nam-Myōn, Chunsōng-Gun\*). *Mosla punctata* Maxim. (*Tūlgai-Phul*) (Seoul).

***Coleosporium phellodendri*** Komarov in Jaczewski Komarov & Tranzschel, Fung. Ross. Exsicc. no. 274, 1899. II, III. *Phellodendron amurense* Rupr. (*Hwangbyōk-Namu*) (Seoul).

***Coleosporium plectranthi*** Barclay in Jour. Asiatic Soc. Bengal, LIX, p. 89 & pl. VI, fig. 4, 1890. II, III. *Plectranthus inflexus* Vahl (*Sanbakha*) (Seoul, Mt. Kūmgang)

***Coleosporium pulsatillae*** (Steud.) Léveillé in Orbigny, Dict. Univ. Hist. Nat. XII, p. 789, 1849. II, III. *Pulsatilla koreana* Nakai (*Halmi-Got*) (Mt. Kūmgang; Wōnsan; Seoul; Mt. Tairyong, Chunsōng-Gun).

***Coleosporium saussureae*** Thümen in Bull. Soc. Imp. Nat. Moscou. LII, p. 212, 1880. II, III. *Saussurea pulchella* Fischer (*Kahssi-Chwi*) (Chuūl-Eup, Kyōngsōng-Gun; Mt. Odai, Prov. Kangwōn) *S.* sp. (Mt. Kūmgang).

***Coleosporium xanthoxyli*** Dietel et P. Sydow in Hedwigia, XXXVII, p. 217, 1898. II, III. *Fagara mantchurica* Honda (= *F. schinifolia* Engl.) (*Sancho-Namu*) (Seoul; Sohūl-Myōn, Pochōn-Gun)

Fam. **PUCINIACEAE****Blastospora** Dietel

*Blastospora itoana* Togashi et Onuma in Bot. Mag. Tokyo, XLV, p. 6 & figs. 1-3, 1931. II. III. *Smilax Oldhami* Miq. (*Sōnmil-Namul*) (Mt. Kūmgang).

**Pileolaria** Castagne

*Pileolaria klugkistiana* Dietel in Ann. Myc. XIX, p. 301, 1921. II, III. *Rhus javanica* L. (*Puk-Namu*) (Seoul).

*pileolaria shiraiana* (Diet. et Syd.) S. Ito in Jour. Coll. Agric. Hokkaido Imp. Univ. XI, p. 2 73 & pl. IX, fig. 13, 1922. II, III. *Rhus trichocarpa* Miq. (*Kaiot-Namu*) (Mt. Kūmgang)

**Kuehneola** Magnus

*Kuehneola uredinis* (Link) Arthur in Résult. Sci. Congr. Internat. Bot. Vienne (1905), p. 342 1906. (*Kuehneola albida* Magnus, Magnus, 1898). O, II, III. *Rubus* sp. (*Cultivated*) (Distr.—Unkn-own).

**Tranzschelia** Arthur

*Tranzschelia fusa* (pers.) Dietel in Ann. Myc. XX, p. 31, 1922. O, III. *Pulsatilla koreana* Nakai (*Halmi-Got*) (Phungsan-Myōn, Phungsan-Gun).

*Tranzschelia pruni-spinosae* (Pers.) Dietel in Ann. Myc. XX, p. 31, 1922. II, III. *Prunus Nakaii* Lév. (*San-Aingdo-Namu*) (Sohūl-Myōn, Pochōn-Gun).

**Uropyxis** Schröter

*Uropyxis fraxini* (Kom.) Magnus in Ber. Deutsch. Bot. Ges. XVII, p. 119 & figs. 1 & 2, 18 99. III. *Fraxinus rhynchophylla* Hance (*Mulphure-Namu*) (Mt. Kūmgang).

**Teloconia** H. Sydow

*Teloconia Kamtschatkæ* (Anders.) Hiratsuka, f. in Bot. Mag. Tokyo LVII, p. 283, 1943. O, III. *Rosa rugosa* Thunb. (*Haidang-Hwa*) (Distr.—Unknown).

**Xenodochus** Schlechtendal

*Xenodochus carbonarius* Schlechtendal in Linnæa, I, p. 237 & pl. III, fig. 3, 1826. I, III. *Sanguisorba officinalis* L. (*Oi-Phul*) (Fuchhi-Ryōng Phungsan-Gun; Chayu-Ryōng, Prov. Hambuk) S. (*temifolia* Fisch. var. *alba* Trautv. et Mey. (*Kan-nū-Oi-Phul*) (Pochōn-Myōn, Hesang-Gun).

**Phragmidium** Link

*Phragmidium brevipedicellatum* Hiratsuka, f. in Transact. Sapporo Nat. Hist. Soc. XIII, p. 135

1934. I, II, III. *Potentilla Wallichiana* Del. (= *P. Kleiniana* Wight et Arn.) (*Karakchi-Namul*) (Yongyōn-Myōn, Ongjin-Gun; Chubuk-Myōn Kyōngsōnh-Gun).

*Phragmidium griseum* Dietel in Bot. Jahrb. X XXII, p. 49, 1902. II, III. *Rubus crataegifolius* Bunge (*San-Dalgi-Namu*) (Seoul; Mt. Kūmgang; Sōnghwan; Mt. Tairyong; Chunsōng-Gun\*). *R. morifolius* Sieb. (= *R. Wrightii* A. Gray) (*Sugom-Dalgi*) (Sōnghwan).

*Phragmidium montivagum* Arthur in Torreya, IX, p. 24 & fig. 5, 1909. O, I, II, III. *Rosa rugosa* Thunb. (*Haidang-Hwa*) (Wōnsan).

*Phragmidium papillatum* Dietel in Hedwigia X XIX, p. 25, 1890. II, III. *Potentilla cryptotaeniae* Maxim. (*Mul-Yangji-Got*) (Mt. Kūmgang; Mt. Tairyong, Chunsōng-Gun\*).

*Phragmidium pauciloculare* (Diet.) p. et H. Sydow Monogr. Ured. III, p. 138 & pl. VI fig. 60, 1912. II, III. *Rubus parvifolius* L. (*Mōngsūk-Dalgi*) (Seoul; Mt. Kūmgang; Wōnsan; Taijōn; Mt. Tairyong, Chunsōng-Gun\*).

*Phragmidium potentillae* (Pers.) Karsten, Myc. Fenn. IV, p. 49, 1878. O, I, II, III. *Potentilla chinensis* Ser. (*Dakchi-Got*) (Seoul; Mt. Kūmgang Wōnsan; Mt. Tairyong, Chunsōng-Gun\*; Chunchōn). *P. chinensis* ser. var. *littoralis* Nakai (*Kait-Dakchi*) (Wōngan).

*Phragmidium rosae-multiflorae* Dietel in Hedwigia, XLIV, p. 132, 345 & pl. IV, fig. 8, 1905 O, I, II, III. *Rosa Maximowicziana* Regel (*Yonggasi-Namu*) (Yeungyang). *R. multiflora* Thunb. (= *R. polyantha* Sieb. et Zucc. var. *genuina* Nakai) (*Dchille-Namu*) (Seoul; Mt. Tairyong, Chunsōng-Gun\*).

*Phragmidium rosae-rugosae* Kasai in Transact. Sapporo Nat. Hist. Soc. III, p. 38 & pl. I, fig. 6, 1910. I, II, III. *Rosa rugosa* Thunb. (*Haidang-Hwa*) (Mt. Kūmgang; Wōnsan; Sokchho-Eup, Yangyang-Gun\*).

*Phragmidium rubi-idaei* (DC.) Karsten Myc. Fenn. IV p. 52, 1879, O, I, II, III. *Rubus Idaeus* L. var. *Microphyllus* Turcz. (*Mōngdōk-Dalgi*) (Mt. Puk, Changjin-Gun).

**Triphragmium** Link

*Triphragmium anomalum* Tranzschel in Naoumoff Bull. Soc. Myc. France XXX, p. 78, 1914. (O), II, III. *Filipendula palmata* Maxim. (*Tanphung-Thōri*) (Pochōn-Myōn, Hesang-Gun).

*Triphragmiopsis Naoumoff*

*Triphragmiopsis jeffersoniae* Naoumoff in Bull. Soc. Myc. France XXX, p. 78, pl. III, fig. 11, 1914. I, III. *Jeffersonia dubia* Benth. et Hook. (= *Plagiorthema dubium* Maxim.) (*Gaing-Gaingi-Phul*) (Yongyön-Myön, Ongjin-Gun).

*Nyssopsora Arthur*

*Nyssopsora cedrelae* (Hori) Tranzschel in Jour. Soc. Bot. Russie, VIII, p. 132, 1925. II, III. *Toona sinensis* Roem. (= *Cedrela sinensis* A. Juss.) (*Chamjung-Namu*) (Künnam-Myön, Uljin Gun; Taijön; Chôngüp).

*Nothoravenelia Dietel*

*Nothoravenelia japonica* Dietel in Ann. Myc. VIII, p. 310, 1910. II, III. *Securinea fluggeoides* Muell. Arg. (*Kwangdai-Sari*) (Mt. Kūmgang).

*Gymnosporangium Hedwig, f.*

*Gymnosporangium clavariaeforme* (Jacq.) DC., Fl. Fr. II, p. 217, 1805. III. *Juniperus rigida* Sieb. et Zucc. (*Noganju-Namu*) (Suwön, Chuchön\*).

*Gymnosporangium haraeianum* P. et H. Sydow in Ann. Myc. X, p. 405, 1912. O, I. *Chaenomeles extus-coccine* Carr. (= *Cydonia japonica* Pers.) (*Myūngja-Namu*) (Seoul). *Pyrus communis* L. (*Sōyang-bai*) (*Cultivated*) (Suwön, Taijön, Naju). *P. Fauriei* Schneid. (*Chom-Dolbai-Namu*) (Seoul). *P. montana* Nakai var. *Rehderi* Nakai (= *P. sinensis* Lindl. var. *culta* Makino (*Pai-Namu*) (*Cultivated*) (Mt. Kūmgang, Suwön, Taijön, Naju Chunchön\*). *P. seoulensis* Nakai (*Munbai-Namu*) (Seoul). *P. ussuriensis* Maxim. (*San-Dolbai-Namu*) (Sohül-Myön, Pochön-Gun). *Pourthiaea brunnea* Nakai (= *P. villosa* Done var. *brunnea* Nakai) (*Ddöküp-Yunnori-Namu*) (Cheju Island). *P. laevis* Koidz. (*Yunnori-Namu*) (Seoul). III. *Juniperus chinensis* L. (*Hyang-Namu*) (*Cultivated*) (Suwön, Chunchön\*).

*Gymnosporangium juniperi* Link in Mag. Ges. Nat. Freunde zu Berlin, III, p. 7, 1809. O, I. *Sorbus* sp. (Annong-Myön, Kyōngwön-Gun).

*Gymnosporangium miyabei* Yamada et I. Miyake in Bot. Mag. Tokyo, XXII, p. 23 & figs. 1-9, 1908. O, I. *Sorbus alnifolia* K. Koch (*Phatpai-Namu*) (Piwön, Seoul; Mt. Sōlak, Prov. Kangwön\*).

*Gymnosporangium yamadae* Miyabe ex Tanaka in Mycologia, XIV, p. 285, 1922. O, I. *Malus baccata* Borkh. var. *mandshurica* Schneid. (*Manju-Agūbai-Namu*) (Seoul, Cheju Island). *M. Halli-*

*ana* Koidz. var. *spontanea* Koidz. (*Tül-Haidong*) (Seoul) *M. pumila* Mill. var. *domestica* Schneid. (*Sakwa-Namu*) (*Cultivated*) (Kaisōng, Chinnampho Taigu). *M. toringo* Sieb. (= *M. Sieboldii* Rehd.) (*Agūbai-Namu*) (Seoul). III. *Juniperus chinensis* L. (*Hyagn-Namu*) (*Cultivated*) (Chinnampho).

*Uromyces Link*

*Uromyces amurensis* Komarov in Jaczewski, Komarov & Tranzschel, Fung. Ross. exsicc. nos. 157 & 158, 1899. O, I, II, III. *Maackia amurensis* Rupr. et Maxim. (*Tarum-Namu*) (Seoul, Mt. Kūmgang).

*Uromyces appendiculatus* Link in Ges. Nat. Freunde Berlin Mag. VII, p. 28, 1815. O, I, II, III. *Phaseolus vulgaris* L. (*Kangnang-Khong*) (*Cultivated*) (Seoul, Wōnsan Taijön, Yeungyang).

*Uromyces azukicola* S. Hirata in Ann. Phytopath. Soc. Japan XVI, p. 18 & text-fig. 1952 O, I, II, III. *Phaseolus angularis* Wight (*Phat*) (*Cultivated*) (Sariwön, Taijön, Yeungyang). *P. radiatus* L. (*Nogtu*) (*Cultivated*) (Taijön, Yeungyang).

*Uromyces commelinae* Cooke in Transact. Roy. Soc. Edinb. XXXI, p. 342, 1888. II, III. *Commelina communis* L. (*Talgaibi*) (Seoul; Mayang Island, Pukchōng-Gun).

*Uromyces dactylidis* Otth in Mittheil. Naturforsch. Ges. Bern (1861), p. 85, 1861. (*Uromyces alopecuri* Seymour, 1889). II, III. *Alopecurus aequalis* Sobol. (= *A. fulvus* Sm.; *A. geniculatus* L.) (*Tuksai-Phul*) (Seoul, Suwön, Chunchön\*).

*Uromyces dianthi* Niessl in verh. Naturf. Ver. Brünn X, p. 162, 1872. (*Uromyces caryophyllinus* Winter, 1884). II, III. *Dianthus superbus* L. (*Phairaingi-Got*) (Imok-Ryōng, Pukchōng-Gun).

*Uromyces erythronii* Passerini Comm. Soc. Critt. Ital. II, p. 452, 1867. O, I, III. *Erythronium japonicum* Decne. (*Olleji*) (Kyōngsōng-Myön, Kyōngsōng-Gun).

*Uromyces euphorbiae* Cooke et Peck in Peck in Ann. Rept. N. Y. State Mus. XXV, p. 90, 1873. (*Uromyces proeminens* Léveillé, 1847). O, I, II, III. *Euphorbia humifusa* Willd. (*Dang-bindai*) (Pulguk-Sa, Kyōngju-Si).

*Uromyces fabae* De Bary in Ann. Sci. Nat. (IV), XX, p. 72, 1863. O, I, II, III. *Lathyrus maritimus* Bigel. (*Kait-Wandu*) (Wōnsan). *Vicia Faba* L. forma *anacarpa* Makino (*Mama-Khong*) (*Cultivated*) (Phungsan-Myön phungsan-Gun; Suwön).

*Uromyces geranii* (DC.) Léveillé in Ann. Sci.

Nat. (III), VIII, p. 371. & 376, 1847. O, I, II, III. *Geranium Koreanum* Komarov (*Thunggün-Ijil-Phul*) (Mt. Odai Prov. Kangwön Aug. 11, 1960, C. J. Kim). New to Korea!

*Uromyces halstedii* De Toni ex Saccardo Syll. Fung. VII, p. 557, 1888. II, III. *Leersia oryzoides* Sw. var. *japonica* Hack. (*Kyö-Phul*) (Sohül-Myön Phöchön-Gun).

*Uromyces holwayi* Lagerheim in Hedwigia, XX VIII, p. 108, 1889. O, I, II, III. *Lilium davuricum* Ker-Gawl. (*Naigai-Hanul-Nari*) (Pochön-Myöa) Hesan-Gun).

*Uromyces itoanus* Hiratsuka f. in Hiratsuka, f. & Tobinaga in Ann. Phytopath. Soc. Japan IV, p. 161, 1935. O, I, II, III. *Microlespedeza striata* Makino (*Maidop-Phul*) (Seoul; Mt. Küm-gang; Mt. Yonghwa Hwachön-Gun\*; Chunchön\*).

*Uromyces laburni* (DC.) Oth in Mittheil. Naturforsch. Ges. Bern (1863), p. 87, 1863. (*Uromyces genistae-tinctoriae* Winter, 1884). II, III. *Caragana Chamlagu* Lam. (*Koldamcho*) (*Cultivated*) (Seoul).

*Uromyces leptodermus* P. et H. Sydow in P. & H. Sydow & Butler in Ann. Myc. IV, p. 430, 1906. (*Uromyces setariae-italicae* Yoshino, 1906; *U. eriochloae* P. et H. Sydow et Butler, 1907). II, III. *Setaria italica* Beauv. var. *germanica* Schrad. (*Cho*) (*Cultivated*) (Seoul, Suwön, Sariön, Phöngy-ang Euiju Cheju Island Chunchön Chunsöng-Gun\*). *S. viridis* Beauv. (*Kangaji-Phul*) (Swön, Cheju Island). *S. viridis* Beauv. var. *purpurascens* Maxim. (*Chaju-Gangaji-Phul*) (Seoul, Suwön, Cheju Island).

*Uromyces lesbedezae-procumbentis* (Schw.) C-urtis, Geol. Nat. Hist. Survey N. Car. III, p. 123, 1857. O, I, II, III. *Lespedeza bicolor* Turcz. var. *japonica* Nakai (*Sari-Namu*) (Mt. Tairyöng, Chunsöng-Gun, Nov. 9, 1959, C. J. Kim). *L. cuneata* G. Don (*Pisuri*) (Mt. Küm-gang\*; Chunchön\*). *L. cyrtobotrya* Miq. (*Cham-Ssari*) (Seoul; Mt. Küm-gang; Mt. Sö-lak, Prov. Kangwön\*; Chunchön\*). *L. cytisoides* Nakai var. *inschanica* Nakai (*Dang-Bisuri*) (Wönsan). *L. Maximowiczii* C. K. Schn. (*Chorok-Sari*) (Seoul; Mt. Küm-gang; Mt. Tairyöng, Chunsöng-Gun\*).

*Uromyces limonii* Léveillé in Orbigny, Dict. Univ. Hist. Nat. XII, p. 786, 1849. O, I, II, III. *Limonium japonicum* O. Kuntze (= *Statice japonica* Sieb. et Zucc) (*Kait-Kilgyöng*) (Yongyön-

Myön, Ongjin-Gun).

*Uromyces lybocconi* (Kalchbr.) Trotter, Fl. Ital. Crypt. Ured. p. 64, 1908. (*Uromyces aconiti* Fückel, 1869). II, III. *Aconitum Roczyanum* Raymond (*Chinbön*) (Mt. Tairyöng, Chunsöng-Gun.) Oct., 9, 1959, C. J. Kim). New to Korea!

*Uromyces minor* Schröter, Pilze Schles. I, p. 3, 10, 1837, III. *Trifolium Lupinaster* L. (*Talguji-Phul*) (Pochön-Myön, Hesan-Gun).

*Uromyces nerviphilus* Grognot Hotson in Publ. Puget sound Biol. Station, IV, p. 368, 1925. III. *Trifolium repens* L. (*Thoggi-Phul*) (*Cultivated*) (Kyöngsöng, Kwöngsöng-Gun).

*Uromyces orobi* Léveillé in Ann. Sci. Nat. (III) VIII, p. 371 & 376, 1847. O, I, II, III. *Lathyrus Davidii* Hance (*Hwalryang-Namul*) (Mt. Tairyöng Chunsöng-Gun, Oct. 9, 1959, C. J. Kim). *Vicia nipponica* Matsum. (*Neip-Kalkhi*) (Mt. Odai, Prov. Kangwön, Aug. 11, 1960, C. J. Kim). *V. unijuga* Al. Braun (*Nabi-Namul*) (Chayu-Ryöng, Prov. Hambuk; Huchi-Ryöng, Phungsan-Gun; Sinnamon-Myön, Changjin-Gun; Mt. Tairyöng, Chusöng-Gun\*).

*Uromyces polygoni-aviculariae* (Pers.) Karsten Myc. Fenn. IV, p. 12, 1879. (*Puccinia polygoni-aviculariae*; Pers., 1801; *Uromyces polygoni* Fückel 1870). O, I, II, III. *Polygonum aviculare* L. (*Ök-Maidūp*) (Seoul, Suwön, Chunchön\*).

*Uromyces rudbeckiae* Arthur et Holway in Bull. Iowa Agric. Coll. (1884), p. 154, 1885. III. *Solidago Virga-aurea* L. (*Miyök-Chwi*) (Mt. Küm-gang).

*Uromyces sophorae-flavescentis* Kusano in Bot. Mag. Tokyo, XVIII, p. 4 & fig. 3, 1904. II, III. *Sophora angustifolia* Sieb. et Zucc. (*Kosam*) (Wönsan).

*Uromyces trifolii* (Hedw. f.) Léveillé in Ann. Sci. Nat. (III) VIII, p. 371, 1847. O, I, II, II I. *Trifolium repens* L. (*Thogi-Phul*) (Seoul).

*Uromyces truncicola* Hennings et Shirai in Hennings in Bot. Jahrb. XXVIII, p. 260, 1901. II, III. *Sophora japonica* L. (= *Styphnolobium japonicum* Schott.) (*Hoekwa-Namu*) (Distr.-Unknown)

*Uromyces veratri* Schröter in Abh. Schles. Ges. vaterl. Kult. XLVIII, p. 10, 1869. II, III. *Veratrum album* L. var. *grandiflorum* Maxim. (= *V. grandiflorum* Loesn. fil.) (*Pak-Sai*) (Mt. Sö-lak, Prov. Kangwön, Jul. 21, 1961, C. J. Kim). *V.* sp. (Tongsang-Myön, Sinhüng-Gun).

*Uromyces vignae* Barclay in Jour. Asiatic Soc. Bengal, LX, 2, pt. p. 211, 1891. II, III. *Vigna Ciliang* Endl. var. *sinensis* King (= *V. sinensis* Endl.) (*Tongbu*) (*Cultivated*) (Seoul, Taijŏn)

***Puccinia Persoon***

*Puccinia absinthii* (Hedw. f.) De Candolle, Fl. Fr. VI, p. 56, 1815. II, III. *Artemisia japonica* Thunb. (*Chebi-Suk*) (Mayang Island, Pukchŏng-Gun). *A. lavandulaefolia* DC. (*Baing-Suk*) Chunchŏn, Oct. 12, 1960. C. J. Kim)

*Puccinia acetosae* Körnicke in Hedwigia, XV, p. 184, 1876. II, III. *Rumex acetosa* L. (*Suyŏng*) (Kyŏngsŏng-Myŏn, Kyŏngsŏng-Gun; Mt. Tairyong, Chunsŏng-Gun\*).

*Puccinia adenophorae* Dietel in Ann. Myc. XXV III, p. 276, 1930. III. *Adenophora remotiflora* Miq. (*Mosiddai*) (Mt. Sŏlak, Prov. Kangwŏn, Jul. 20, 1961, C. J. Kim). New to Korea!

*Puccinia agropyri-ciliaris* Tai et Wei in Sineusia, IV, p. 110 & fig. 41, 1933. III. *Agropyrum ciliare* Franch. (*Sokthŏl-Gaimil*) (Nanam; Kyŏngsŏng, Kyŏngsŏng-Gun)

*Puccinia agropyricola* Hiratsuka, f. in Hiratsuka f. & Sato in Bot. Mag. Tokyo, LXIV, p. 221, 1951. (*Rostrupia miyabeana* S. Ito, 1909). II, III. *Agropyrum ciliare* Franch. (*Sokthŏl-Gaimil*) (Dist. Unknown).

*Puccinia allii* (DC.) Rudolphi in Linnaea, IV, p. 392, 1829. II. *Allium fistulosum* L. (*Pha*) (*Cultivated*) (Chunchŏn? Nov. 1957, C. J. Kim). New to Korea! This specimen found in a dust-bin in Chunchŏn.

*Puccinia angustata* Peck in Bull. Buffalo Soc. Nat. Sci. I, p. 67, 1873; Ann. Rept. N. Y. State Mus. XXV, p. 123, 1873. O, I. *Lycopus lucidus* Turcz. (*Swip-Sari*) (Pochŏn-Myŏn, Hesang-Gun).

*Puccinia aomoriensis* P. et H. Sydow in Ann. Myc. XI, p. 104, 1913. O, I. *Atractylis ovata* Thunb. (= *A. lyrata* Sieb. et Zucc.) (*Sapchu*) (Mt. Kŏnggang; Mt. Tairyong, Chunsŏng-Gun\*; Mt. Samhak, Chunsŏng-Gun\*; Kongju) II, III. *Carex lanceolata* Boott (*Kŏnŭl-Sachŏ*) (Mt. Kŏnggang).

*Puccinia arenariae* (Schum.) Winter, Pilze Deutschl. I, p. 169, 1884. (*Puccinia spargulae* DC., 1805). III. *Spargula arvensis* L. (*Tul-Gaimi-Jari*) (Chuul-Eup, Kyŏngsŏng-Gun).

*Puccinia artemisiae-keiskeanae* Miura ex P. & H. Sydow in Ann. Myc. XI, p. 95 & fig. 1, 1913.

III. *Artemisia keiskeana* Miq. (*Malŏn-Dai-Suk*) (Pukchŏng-Gun; Mt. Samhak, Chunsŏng-Gun\*)

*Puccinia artemisiicola* P. et H. Sydow, Monogr. Ured. I, p. 14 & pl. I, fig. 11, 1902. III. *Artemisia stolonifera* Komarov. (*Nŏlbŏn-Oeip-Suk*) (Sohŏl Myŏnl, Phochŏn-Gun).

*Puccinia arundinellae-anomalae* Dietel in Bot. Jahrb. XXXVII, p. 100, 1905. II, III. *Arundinella hirta* Tanaka var. *ciliata* Koidz. (*Sai*) (Piwŏn, Seoul; Mt. Kŏnggang; Chunchŏn\*).

*Puccinia behenis* (DC.) Otth in Mitth. Naturforsch. Ges. Bern (1870) p. 89, 1870. O, I, II, III. *Lychnis cognata* Maxim. (*Tongja-Got*) (Mt. Puk, Chanjin-Gun; Mt. Odai, Prov. Kangwŏn\*; Mt. Sŏlak, Prov. Kangwŏn\*).

*Puccinia bistortae* De Candolle, Fl. Fr. VI, p. 61, 1815. II, III. *Bistorta incana* Nakai (*Hin-Bŏm-Gori*) (Yudŏk-Myŏn, Kyŏngwŏn-Gun). *Polypogonum Bistorta* L. (*Pŏm-Gori*) (Mt. Tairyong, Chunsŏng-gun, Jun. 10, 1960. C. J. Kim).

*Puccinia brachybotrydis* Komarov in Jaczewski, Komarov & Tranzschel, Fung. Ross. exsicc. no. 219, 1898. III. *Brachybotrys paridiformis* Maxim. (*Tang-Gai-Jishi*) (Dochŏn-Myŏn, Hesang-Gun).

*Puccinia bupleuri* Rudolphi in Linnaea, IV, p. 514, 1829. II, III. *Bupleurum sachalinense* F. Schm. (*Kai-Siho*) (Mt. Odai, Prov. Kangwŏn, Aug. 11, 1960, C. J. Kim). New to Korea!

*Puccinia calthicola* Schröter, Beitr. Biol. Pfl. III, p. 61, 1879. ("sub *Puccinia calthaeicola*"). O, I, II, III. *Caltha sibirica* Makino forma *erecta* Makino (= *C. membranacea* Schip. forma *erecta* Koidz.) (*Tongŏi-Namul*) (Pochŏn-Myŏn, Hesang-Gun).

*Puccinia campanumaeae* Patouillard in Rev. Myc. p. 182, 1886. III. *Codonopsis pilosula* Nannfeldt (= *C. silvestris* Komar.) (*Man-Sam*) (Prov. Hamnam "Karimuni?" Jul. 21, 1897, V. Komarov).

*Puccinia canaliculata* (Schw) Lagerheim in Tromsø Mus. Aarsh. XVII, p. 51, 1894. II, III. *Cyperus difformis* L. (*Al-Bangaongsani*) (Chunchŏn, Aug. 8, 1961, C. J. Kim). *C. microiria* Steud. (*Kŏm-Bangŏngsani*) (Kyŏngsŏng-Myŏn, Kyŏngsŏng-Gun; Chunchŏn\*).

*Puccinia carducrum* Jacky in Zeitschr. f. Pflanzenkr. IX, p. 288 & fig. 13, 1899. II, III. *Carduus crispus* L. (*Chinŏremi-Ongŏnghwi*) (Pukchŏng, Pukchŏng-Gun; Mt. Tairyong, Chunsŏng-Gun\*).

*Puccinia caricis-macrocephalae* Dietel in Ann.



Myc. VIII, p. 306, 1910. II, III. *Carex macrocephala* Willd. (*C. Kobomugi* Ohwi) (*Pori-Sacho*) (Wönsan).

*Puccinia caricis-siderostictae* Dietel in Ann. Myc. V, p. 72, 1907. II, III. *Carex siderosticta* Hance (*Tai-Sacho*) (Mt. Kūmgang).

*Puccinia chrysanthemi* Roze in Bull. Soc. Myc. Fr. XVII, p. 92, 1900. II, III. *Chrysanthemum morifolium* Ramat. var. *sinense* Makino (*Kuk-Hwa*) (*Cultivated*) (Seoul). *Ch. sibiricum* Fisch. (= *Ch. Zawadzki* Herb. var. *latilobum* Kitamura) (*Kujlo-Cho*) (Mt. Kūmgang; Yōnghūng, Yōnghūng-Gun).

*Puccinia cicutae* Lasch in Klotzsch, Herb. Myc. no. 787, 1845. O, I, II, III. *Cicuta virosa* L. (*Tok-Minari*) (Chuül-Eup, Kyōngsōng-Gun).

*Puccinia circaeae* Persoon, Syn. Meth. Fung. p. 223, 1801. III. *Circaea alpina* L. (*Chwithöl-Isül*) (Pochōn-Myōn, Hesan-Gun).

*Puccinia cirsii* Lasch in Rabenhorst, Fung. Eur. no. 89, 1859. O, II, III. *Cirsium maackii* Maxim. (*ōnggōngkhwi*) (Seoul). *C. endulum* Fischer (*Kh-ōn-ōnggōngkhwi*) (Distr.-Unknown). †

*Puccinia convolvuli* Castagne, Observ. Fl. Ured. I, p. 16, 1842. O, I, II, III. *Calystegia japonica* Choisy (*Me-Got*) (Yōngyōn-Myōn, Ongjin-Gun). *C. Soldanella* R. Br. (*Kait-Me-Got*) (Wönsan; Sokcho-Eup, Yangyang-Gun\*).

*Puccinia coronata* Corda, Icon. Fung. I, p. 6, 1837. (*Puccinia brevicornis* S. Ito, 1909; *P. epigejos* S. Ito, 1909; *P. hierochloae* S. Ito., 1909; *P. himalensis* (Barcl.) Dietel, 1897; *P. lolii* Nielsen, 1875; *P. pertenuis* S. Ito, 1909; *P. rangiferina* S. Ito, 1909). II, III. *Avena sativa* L. (*Kwiri*) (*Cultivated*) (Pochōnbo, Hesan-Gun). *Cladmagrostis arundinacea* Roth. var. *sciuroides* Hack. (*Sil-Sai-Phul*) (Seoul). *Hierochloe odorata* Beauv. (*Hyangmo*) (Wönsan).

*Puccinia cynodontis* Lacroix ex Desm., pl. Crypt. Fr. II, no. 653, 1859. II, III. *Cynodon Dactylon* Pers. (*Usandai-Jandi*) (Wönsan).

*Puccinia diarrhenae* Miyabe et S. Ito in S. Ito in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 190 & pl. X, fig. 16, 1909. II, III. *Diarrhena japonica* Franch. et Sav. (*Yong-Suyōm-Phul*) (Sohül-Myōn, Pochōn-Gun).

*Puccinia dieteliana* P. Sydow in Hedwigia, XX XVII, p. 215, 1898. I, III. *Lysimachia clethroides* Duby (*Khūn-Gachi-Suyōm*) (Mt. Kūmgang; Seoul

Mt. Tairyong, Chunsōng-Gun\*; Mt. Samhak, Chunsōng-Gun\*).

*Puccinia dioscoreae* Komarov in Jaccowski, Komarov Tranzschel, Fung. Ross. exsicc. no. 269, 1899. (*Rostrupia dioscoreae* (Kom) Sydow, 1902). II, III. *Dioscorea nipponica* Makino (*Puchai-Ma*) (Chuül-Eup, Kyōngsōng-Gun).

*Puccinia diplabhnicola* Dietel in Ann. Myc. VIII, p. 308, 1910. I. *Sedum Aizoon* L. (*Kanūn-Girincho*) (Distr.-Unknown). *S. selskianum* Regel et Maack (*Tōl-Girincho*) (Distr.-Unknown). II, III. *Diplachne serotina* Link. var. *chinensis* Maxim. (= *Cleistogenes Hackeji* Honda) (*Tai-Sai-Phul*) (Seoul).

*Puccinia elymi* Westendorp in Bull. Acad. Roy. Belg. XVIII, p. 408, 1851. (*Rostrupia elymi* Lagerheim, 1839). II, III. *Roegneria ciliaris* Nevski(?) (Chuül-Eup, Kyōngsōng-Gun).

*Puccinia elytrariae* Hennings in Hedwigia, XX XV, p. 32, 1895. III. *Justicia Procumbens* L. (*Chwi-Gori-Mangcho*) (Seoul).

*Puccinia eulaiae* Barclay in Jour. Asiatic Soc. Bengal. LX, (2), p. 216, 1891. II, III. *Miscanthus sinensis* Anderss. forma *purpurascens* Makino (= *M. purpurascens* Anderss.) (*Ok-Sai*) (Seoul).

*Puccinia fagopyri* Barclay in Jour. Asiatic Soc. Bengal, LIX, (2), p. 107, pl. III, fig. 9, 1890. II, III. *Fagopyrum esculentum* Moench. (= *Polygonum Fagopyrum* L.) (*Momii*) (*Cultivated*) (Pochōn-Myōn, Hesan-Gun).

*Puccinia ferruginosa* P. et H. Sydow, Monogr. Ured. I, p. 13, 1902. III. *Artemisia Iwayomogi* Kitamura (*Tōwi-figi*) (Hamhūng). *A. mongolica* Fischer (*Cham-Suk*) (Suwōn, Tangjin). *A. vulgaris* L. var. *coarctata* Bess. (*Cham-Suk*) (Wönsan, Mt. Kūmgang). *A. vulgaris* L. var. *indica* Maxim. (*Suk*) (Seoul, Suwōn, Taijūn, Chunchōn\*).

*Puccinia festucae* Plowright in Grevillea, XXI, p. 109, 1893. O, I. *Lonicera Maackii* Maxim. (*Koebul-Namu*) (Sohül-Myōn, Pochōn-Gun).

*Puccinia funkiae* Dietel in Hedwigia, XXXVII, p. 214, 1898. II, III. *Hosta minor* Nakai (*Chom-Bibichu*) (Mt. Kūmgang).

*Puccinia glechomatis* De Candolle ex Poir. in Lam., Encycl. Meth. Bot. VIII, p. 245, 1808. III. *Glechoma hederacea* L. var. *grandis* Kudo (= *Nepeta Glechoma* Benth.) (*Pyōng-Got-Phul*) (Seoul). *Mechonia urticifolia* Makino (*Pōlgai-Donggul*) (Mt. Tairyong, Chunsōng-Gun, Jul. 11, 1960;

Mt. Odai, Prov. Kangwŏn, Aug. 11, 1960; -C. J. Kim).

*Puccinia graminis* Persoon, Syn. Meth. Fung. p. 228, 1801. (*Puccinia culmicola* Dietel, 1950; *P. shlei-pratensis* Eriksson et Henning, 1894; *P. slymina* Miura, 1928). O, I. *Berberis amurensis* Rupr (= *B. vulgaris* L. var. *japonica* Regel) (*Mzi-Balthop-Namu*) (Sinnam-Myŏn, Changjin-Gun). II, III. *Hordeum sativum* Jess. var. *hexastichon* Hack (*Kot-Pori*) (*Cultivated*) (Sariwŏn, Suwŏn, Taijŏn). *H. sativum* Jess var. *vulgare* Hack f. *coeleste* Makino (*Sal-Bori*) (*Cultivated*) (Suwŏn, Taijŏn). *Triticum aestivum* L. (= *T. sativum* Lam var. *vulgare* Hack.) (*Mil*) (*Cultivated*) (All Provinces).

*Puccinia gypsophilae* Liou et Wang in Contrib Inst. Bot. National Acad. Peiping, III, p. 442 & pl. XLII, fig. 12, 1935. II, III. *Gypsophila pacifica* Komarov (*Kanŭm-Dai-Namul*) (Chŏnjŏn).

*Puccinia haleniae* Arthur et Holway in Arthur in Bull. Geol. Nat. Hist. Survey Minn. III, p. 30 1887. III. *Halenia corniculata* Cornaz. (= *H. sibirica* Borkh.) (*Tat-Got*) (Pochŏn-Myŏn, Hesang-Gun).

*Puccinia helianthi* Schweinitz in Schr. Nat. Ges. Leipzig, I, p. 73, 1822. O, I, II, III. *Helianthus annuus* L. (*Hai-Baragi*) (*Cultivated*) (Kyŏngsŏng, Kyŏngsŏng-Gun; Chunchŏn\*; Seoul\*).

*Puccinia hemerocallidis* Thümen in Bull. Soc. Imp. Nat. Moscou, LV, p. 81, 1880. O, I. *Patrinia scabiosaefolia* Link. (*Mathari*) (Yongyŏn-Myŏn, Ongjin-Gun; Fuchi-Ryŏng, Phungsan-Gun; Chayu-Ryŏng, Prov. Hambuk). II, III. *Hemerocallis* sp. (*Cultivated*) (Seoul).

*Puccinia hieracii* Martius, Prodr. Fl. Mosq. II. ed., p. 225, 1817. II, III. *Hieracium umbellatum* L. (*Chobap-Namul*) (Mt. Kŭmgang, Cheju Island) *Picris hieracioides* L. var. *japonica* Regel. (= *P. japonica* Thunb.) (*Soesŏ-Namul*) (Chuŭl-Eup, Kyŏngsŏng-Gun; Cheju Island).

*Puccinia hordei* Otth in Mitteil. Naturforsch. Ges. Bern (1870), p. 114, 1871. (*Puccinia anomala* Rostrup, 1878). II, III. *Hordeum sativum* Jess. var. *hexastichon* Hack. (*Kŏt-Pori*) (*Cultivated*) (Sariwŏn, Taijŏn, Chunchŏn\*). *H. sativum* Jess var. *vulgare* Hack. f. *coeleste* Makino (*Sal-Bori*) (*Cultivated*) (Taijŏn).

*Puccinia iridia* Wallroth. in Rabenh Krypt. Fl. I, p. 23, 1344. II, III. *Iris* sp. (Tongsang-Myŏn,

Sinhŏng-Gun).

*Puccinia lactucae-debilis* Dietel in Ann. Myc. VI, p. 225, 1903. O, I, II, III. *Lactuca dentata* Makino (= *Ixeris dentata* Nakai) (*Sum-Bagwi*) (Distr. —Unknown).

*Puccinia lactucae-denticulatae* Dietel in Bot. Jahrb. XXXVII, p. 103, 1905. II, III. *Ixeris sonchifolia* Hance (= *Lactuca bungeana* Nakai) (*Kodŏl-Baigi*) (Seoul). *Lactuca denticulata* Maxim. (= *Ixeris denticulata* Stebbins) (*I-Godŭl-Baigi*) (Seoul Mt. Yonghwa, Hwachŏn-Gun\*).

*Puccinia lactucae-repentis* Miyabe et T. Miyake ex P. & H. Sydow in Ann. Myc. XI, p. 96, 1913 I, III. *Lactuca repens* Maxim. (= *Ixeris repens* A Gray) (*Kait-Sŭmbagwi*) (Wŏnsan; Sokcho-Eup, Yangyang-Gun\*).

*Puccinia longicornis* Patouillard et Hariot in Hariot in Bull. Soc. Myc. Fr. VII, p. 143, 1891. III. *Phyllostachys reticulata* C. Koch (*Cham-Dai*) (*Cultivated*) (Wan Island, Psow. Chŏnnam, Jan. 11, 1959. C. J. Km). New to Korea!

*Puccinia magnusiana* Körnicke in Hedwigia, X V, p. 179, 1876. II, III. *Phragmites japonica* Steud. (= *Ph. prostrata* Makino) (*Tal-Buri-Phul*) (Seoul) *Ph. communis* Trin. (= *Ph. longivalvis* Steub.) (*Kaldai*) (Distr. —Unknown).

*Puccinia mandshurica* Miura, Flora of Manchuria & E. Mongolia. III, p. 308 & pl. IV, fig. G, 1928. II, III. *Carex siderosticta* Hance (*Tai-Sacho*) (Pochŏn-Myŏn, Hesang-Gun).

*Puccinia menthae* Persoon, Syn. Meth. Fung. p. 227, 1801. O, I, II, III. *Mentha arvensis* L. var. *Piperascens* Malinv. (= *M. sacharinensis* Kudo) (*Pakha*) (Mayang Island, Bukchŏng-Gun; Chinju; Chunchŏn\*).

*Puccinia minussensis* Thümen in Bull. Soc. Imp. Nat. Moscou. LIII, p. 214, 1878. O, I, II, III. *Lactuca laciniata* Makino (*Wang-Godŏl-Baigi*) (Mayang Island, Pukchŏng-Gun; Chunchŏn\*; Chunsŏng-Gun\*). *L. dracoglossa* Makino (*Yong-Sŏl-Chi*) (Kyŏngsŏng, Kyŏngsŏng-Gun). *L. Raddiana* Maxim. (*San-Sumbagwi*) (Sohŭl-Myŏn, Phochŏn-Gun; Mt. Tairyong, Chunsŏng-Gun\*). *L. triangulata* Maxim. (*Tume-Godŏl-Baigi*) (Mt. Odai, Prov. Kangwŏn, Aug. 10, 1960, C. J. Kim).

*Puccinia miyakei* P et H. Sydow in Ann. Myc. VII, p. 168, 1908. II, III. *Carex siderosticta* Hance (*Tai-Sacho*) (Sohŏl-Myŏn, Phochŏn-Gun).

*Puccinia miyoshiana* Dietel in Bot. Jahrb. XX

VII, p. 569, 1899. II, III. *Spodiopogon cotulifer* Hack. (= *Eccoilopus cotulifer* A. Camus (Kiram-Sai) (Mt. Kūmgang).

*Puccinia moliniaie* Tulasne in Ann. Sci. Nat. (IV) II, p. 141, 1854. II, III. *Molinia japonica* H. ek. (= *Molinopsis japonica* Hayata) (*Chinphōri-Sai*) (Mt. Kūmgang).

*Puccinia moriokaensis* S. Ito in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 224 & pl. XII, fig. 1, 1909. III. *Phragmites communis* Trin. (= *Ph. longivalvis* Steud.) (*Kal-Dai*) (Mt. Tairyong, Chunsōng-Gun, Sept. 19, 1958, C. J. Kim). *Ph. japonica* Steud. (= *Ph. prostrata* Makino) (*Tai-Buri-Phul*) (Nam-Myōn, Chunsōng-Gun, Nov. 9, 1958, C. J. Kim). New To Korea!

*Puccinia nanbuana* Hennings in Hedwigia, XL, p. (25), 1901. O, II, III. *Angelica dahurica* Benth et Hook. (*Kurit-Dai*) (Mt. Solak, Prov. Kangwōn, Jul. 21, 1961, C. J. Kim). *A. fallax* Boissieu (*Kai-Ganghwal*) (Cheju Island). *A. polymorpha* Maxim. (*Chōn-Gung*) (Cheju Island). *A. pycnuraefolia* Chung (*Chiri-Ganghwal*) (Mt. Odai, Prov. Kangwōn, Aug. 11, 1960, C. J. Kim). A. p. (Mt. Kūmgang).

*Puccinia nolitangeris* Corda, Icon. Fung. IV, p. 16 & pl. V, fig. 57, 1840. II, III. *Impatiens noli-tangere* L. (*Norang-Mul-Bongsōn*) (Mt. Kūmgang; Mt. Tairyong, Chunsōng-Gun\*). *I. Texori* Miq. (*Mul-Bongsōn*) (Mt. Tairyong, Chunsōng-Gun, Nov. 8, 1959, C. J. Kim).

*Puccinia obscura* Schröter ex Pass. in Nuov. Giorn. Bot. Ital. IX, p. 256, 1877. II, III. *Luzula campestris* DC. var. *capitata* Miq. (*Gwōngōi-Bap*) (Seoul).

*Puccinia oenanthes-stoloniferae* S. Ito ex Tranzschel, Conspect. Ured. URSS, p. 299, 1939. II, III. *Oenanthe stolonifera* DC. (*Minari*) (Yongyōn-Myōn, Ongjin-Gun).

*Puccinia pachycephala* Dietel in Ann. Myc. IV, p. 305, 1939. II, III. *Veratrum* sp. (= *V. ussuriense* Nakai?) (Chuōl-Eup, Kyōngsūng-Gun).

*Puccinia patriniae* Hennings in Bot. Jahrb. XX VIII, p. 261, 1900. III. *Patrinia villosa* Juss. (*Duhgai*) (Mt. Kōmgang).

*Puccinia phellopteri* P. et. H. Sydow, Monogr. Ured. I, P. 406, 1903. II, III. *Phellopterus littoralis* Benth. (*Kait-Bangphung*) (Wōnsan).

*Puccinia pimpinellae-brachycarpae* Tranzschel et Eremeeva in Tranzschel, Conspect. Ured. URSS

p. 308 & fig. 32, 1939. III. *Pimpinella brachycarpa* Nakai (*Noru-Cam-Namul*) (Prov. Hamnam; Zantan-Rei? Jun. 23, 1897, V. Komarov).

*Puccinia poae-nemoralis* Otth in Mitt. Naturforsch. Ges. Bern (1870), p. 113, 1871. (*Puccinia poae-sudeticae* (West.) Jorstad, 1932). II, III. *Poa pratensis* L. (*Wang-Phoa-Phul*) (Chuōl-Eup, Kyōngsūng-Gun).

*Puccinia poae-pratensis* Miura in Flora of Manchuria & E. Mongolia, III, p. 280, pl. IV, fig. A, 1923. O. I. *Rhamnus davurica* Pallas (*Kalmi-Namu*) (Mt. Tairyong, Chunsōng-Gun, Jun. 11, 1961, C. J. Kim). New to Korea!

*Puccinia polygoni-amphibii* Persoon Syn. Meth. Fung. p. 227, 1801. II, III. *Persicaria fauriei* (Léveillé & Vaniot) Nakai (*Kasi-Yōggwi*) (Mt. Tairyong, Chunsōng-Gun, Oct. 8, 1959, C. J. Kim). *Polygonum convolvulus* L. (= *Bilderdykia convolvulus* Dumort.) (*Nado-Dalkōl-Dōnggul*) (Seoul, Mt. Kūmgang). *P. filiforme* Thunb. (= *Tovara filiformis* Nakai) (*Isak-Yōggwi*) (Mt. Tairyong, Chunsōng-Gun, Oct. 8, 1959, C. J. Kim). *P. perfoliatum* L. (= *Persicaria perfoliata* Gross.) (*Myōnuri-Baiggop*) (Seoul). *P. Reynoutria* Makino (= *Reynoutria japonica* Houtt.) (*Hojanggūn*) (Cheju Island). *P. sagittatum* L. var. *Sieboldi* Maxim. (= *Parsicaria Sieboldi* Ohki) (*Migguri-Nakssi*) (Mt. Tairyong, Chunsōng-Gun, Jul. 11, 1960, C. J. Kim). *P. Thunbergii* Sieb. et Zucc. (= *Persicaria Thunbergii* Gross.) (*Komari*) (Chunchōn, Nov. 8, 1959; Mt. Tairyong, Chunsōng-Gun Nov. 1959;—C. J. Kim).

*Puccinia polygoni-weyrichii* T. Miyake ex Kawai & Otani in Transact Sapporo Nat. Hist. Soc. XI, p. 234 & fig. 1, 1931. II, III. *Pleuropteryum polymorphum* Nakai (*Singa*) (Tongsan-Myōn Chunsōng-Gun, Aug. 6, 1961, C. J. Kim). New to Korea!

*Puccinia punctata* Link in Ges Nat Freude Berlin Mag. VII, p. 30, 1815. O. I, II, III. *Galium uerum* L. var. *asisticum* Nakai f. *nikkoense* Ohwi (*Hin-Got-Sol-Namul*) (Wōnsan).

*Puccinia punctiformis* (Scr.) Röhling, Deutsch. Fl. 2. Ed., III (3), p. 132, 1813. (*Puccinia obtogens* Tulasne, 1854). O, II, III. *Cephalonoplos segetum* (Bunge) Kitamura (*Chobaingi*) (Hamhōng; Chubuk-Myōn, Hamju-Gun).

*Puccinia pygmaea* Eriksson, Fung. Paras. Scand. no. 449, 1895; Bot. Centralbl. LXIV, p. 381, 18

95. II, III. *Calamagrostis Epigeios* Roth var. *zensiflora* Ledeb. (*Kanôn-Sanjo-Phul*) (Sohöl-Myön, Pochôn-Gun).

*Puccinia recondita* Roberge ex Desmazières in Bull. Soc. Bot. Fr. IV, p. 798, 1857. (*Puccinia agropyri* Ellis et Everhart, 1892; *P. agropyrina* Eriksson, 1892; *P. agrostidis* Plowright ex Oudemans, 1892; *P. bromi-japonicae* S. Ito, 1909; *P. bromina* Eriksson, 1899; *P. dispersa* Eriksson et Henning, 1895; *P. elymi-sibirici* S. Ito, 1909; *P. glyceriae* S. Ito, 1909; *P. ishikariensis* S. Ito, 1909; *P. triseti* Eriksson, 1899; *P. triticina* Eriksson, 1899). II, III. *Agropyrum semicostatum* Nees (= *Roegneria semicostata* Kitagawa) (*Kai-Mil*) (Huchang-Myön, Pukchông-Gun; Söngdök-Myön Pukchông-Gun). *Triticum aestivum* L. (*Mil*) (*Cultivated*) (Sariwön, Taijôn, Chunchôn\*).

*Puccinia scorzonerae* (Schum.) Jacky in Zeitschr. f. Pflanzenkr. IX, p. 248 & text-fig. 7, 1899. O, I, II, III. *Scorzonera albicaulis* Bunge (*Soech-ai*) (Hamhüng).

*Puccinia sonchi* Roberge ex Desm. in Ann. Sci. Nat. (III), XI, p. 274, 1849. II, III. *Sonchus arvensis* L. var. *uliginosus* Trautv. (*Sade-Phul*) (Chuül-Eup, Kyöngsöng-Gun).

*Puccinia stipae-sibiricae* S. Ito in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 228 & pl. XII fig. 5, 1909. O, I. *Sedum Aizoon* L. (*Kanün-Girincho*) (Töksöng-Myön, Pukchông-Gun; Pukchông, Pukchông-Gun; Pochôn-Myön, Hesan-Gun). *S. kamschaticum* Fisch. (*Kirinkco*) (Töksöng-Myön, Pukchông-Gun). II, III. *Stipa effusa* Nakai (*Narat-Sai* Sohöl-Myön, Pochôn-Gun).

*Puccinia striiformis* Westendorp in Bull. Soc. Roy. Acad. Belg. XXI(2), p. 235, 1954. (*Puccinia glumarum* Eriksson et Henning, 1874). II, III. *Hordeum sativum* Jess. var. *hexastichon* Hack. (*Köt-Pori*) (*Cultivated*) (Suwön, Chunchôn\*). *H. sativum* Jess. var. *vulgare* Hack. f. *coeleste* Makino (*Sal-Bori*) (*Cultivated*) (Suwön). *Panicum crusgalli* L. var. *frumentaceum* Trin. (= *Echinochloa* (*Crusgalli*) Beauv. subsp. *edulis* Honda) (*Phi*) (*Cultivated*) (Sariwön). *Triticum aestivum* L. (*Mil*) (*Cultivated*) (All Provinces).

*Puccinia taraxaci* Plowright, Monogr. Brit. Ohw-Ured. & Ustil. p. 185, 1839. II, III. *Taraxacum ananum* Kitamura (*San-Mindöllai*) (Pochôn-Myön, Hesan-Gun). *T. platycarpum* Dahlst. (*Minäüllai*) (Mt. Tairyong, Chunsöng-Gun, Nov. C. J. 9, 19

59, C. J. Kim). T. sp. (Chöl-Eup, Kyöngsöng-Gun).

*Puccinia tokyensensis* P. et H. Sydow. Monogr. Ured. I, p. 377, 1902. O, I, II, III. *Cryptotaenia canadensis* DC. (= *C. japonica* Hassk.) (*Pandi-Namul*) (Seoul; Mt. Odai, Prov. Kangwön\*).

*Puccinia tranzschelii* Dietel in Hedwigia, XXX, p. 295 & pl. XXXV, fig. 5, 1891. III. *Cacalia hastata* L. var. *glabra* Ledeb. (*Min-Bakchwi-Namul*) (Pochôn-Myön, Hesan-Gun).

*Puccinia violae* Schum. De Candolle, Fl. Fr. VI, p. 62, 1815. O, I, II, III. *Viola collina* Besser (*Tonggün-Thöl-Jebi-Got*) (Mt. Küm-gang; Mt. Dairiyong, Prov. Kangwön\*). V. *mandshurica* W. Beck. (*Chebi-Got*) (Chunchôn, Nov. 30, 1961, C. J. Kim).

*Puccinia violae-glabellae* Miura ex P. & H. Sydow in Ann. Myc. XI, p. 101 & fig. 4, 1913. O, I, II, III. *Viola brevistipulata* W. Beck. (*Khün-San-Jebi-Got*) (Huchi-Ryöng, Phungsan-Gun)

*Puccinia zoysiae* Dietel in Bot. Jahrb. XXXII, p. 48, 1902. II, III. *Zoysia japonica* Steud. (*Ch-andi*) (Seoul, Hamhüng, Chunchôn\*). *Z. tenuifolia* Trin. (*Küm-Jandi*) (Seoul).

## UREDINALES IMPERFECTI

### Uredo Persoon

Species of Uredo which seem to belong to Milesina

*Uredo asplenii-incisi* (Faull) Hiratsuka, f. in Transact. Myc. Soc. Japan, no. 5, p. 1957. II. *Asplenium incisum* Thunb. (*Gori-Gosari*) (Seoul).

*Uredo fagaræ* P. et H. Sydow in Ann. Myc. XII, p. 111, 1914. II. *Fagara schinifolia* Engl. (*Sancho-Namu*) (Cheju Island).

*Uredo iyoensis* Hiratsuka, f. et Yoshinaga in Mem. Tottori Agric. Coll. III, p. 334, 1935. II. *Viola* sp. (Mt. Küm-gang).

### Caecoma Link

*Caecoma makinoi* Kusano in Bot. Mag. Tokyo. XVII, p. 15, 1903. O, I. *Prunus Armeniaca* L. var. *Ansu Maxim* (= *P. Ansu* Komar.) (*Salgu-Namu*) (*Cultivated*) (Thosöng-Myön, Pongsan-Gun).

### Aecidium Persoon

*Aecidium adenocauli* P. et H. Sydow in Ann. Myc. XI, p. 111, 1913. O, I. *Adenocaulon adhaerescens* Maxim. (= *Myöl-Gachi*) (Sohül-Myön, Pochôn-Gun)

*Aecidium ainsliaeae* Dietel in Bot. Jahrb. XXVII, p. 571, 1900. O, I. *Ainsliaea acerifolia* Sch.

Bip. (*Tanphung-Chwi*) (Mt. Kūmgang; Mt. Tairyong, Chunsōng-Gun\*; Mt. Sōlak, Prov. Kangwōn\*).

*Acidium alangii* Hiratsuka, f. et Yoshinaga in Mem. Tottori Agric. Coll. III, p. 329, 1935. O. I. *Marlea platentifolia* Sieb. et Zucc. Var. *macrophylla* Makino (*Pakchi-Namu*) (Mt. Samhak, Chunsōng-Gun, Jun. 25, 1961; Mt. Sōlak, Prov. Kangwōn, Jul. 18, 1961;—C. J. Kim). New to Korea!

*Acidium epimedii* Hennings et Shirai in Hennings in Bot. Jahrb. XXVIII, p. 264, 1901. O. I. *Epimedium Koreanum* Nakai (*Samji-Guyōp-Cho*) (Imok-Ryōng, Pukchōng-Gun; Mt. Tairyong, Chunsōng-Gun\*).

*Acidium klugkistianum* Dietel in Hedwigia, X XXVII, p. 212, 1898. O. I. *Ligustrum ibota* Sieb. (*Thōl-Jwiddong-Namu*) (Seoul). *L. ibota* Sieb. f. *glabrum* Nakai (*Chōng-Jwidong-Namu*) (Seoul).

*Acidium meliosmae-myrianthae* Hennings et Shirai in Bot. Jahrb. XXVIII, p. 264, 1901. O. I. *Meliosma myriantha* Sieb. et Zucc. (*Nado-Bam-Namu*) (Distr.—Unknown).

*Acidium mertensiae* Arthur in Bull. Torrey Bot. Club. XXXI, p. 6, 1904, O. I. *Mertensia*

*asiatica* Macbr. (*Kait-Chichi*) (Distr.—Unknown)

*Acidium minoense* P. et H. Sydow in Ann. Myc. XIII, p. 36, 1915. O. I. *Elaeagnus umbellata* Thunb. (= *E. crispa* Thunb.) (*Porisu-Namu*) (Cheju-Island)

*Acidium mori* Barclay in Jour. Asiatic Soc. Bengal, LX (2), p. 226, 1891. (O), I. *Morus bombycis* Koidz. (*Bong-Namu*) (Suwōn, Cheju Island, Sangju-Gun\*).

*Acidium philadelphia* Dietel in Ann. Myc. O. I. *Philadelphus tenuifolius* Rupr. & Maxim. (*Yūbōn-Ip-Kogwang-Namu*) (Mt. Sōlak, Prov. Kangwōn, Jul. 19, 1961, C. J. Kim). New to Korea!

*Acidium quintum* P. et H. Sydow in Ann. Myc. XV, p. 144, 1917. O. I. *Elaeagnus umbellata* Thunb. (= *E. crispa* Thunb.) (*Porisu-Namu*) (Seoul).

*Acidium viburni* Hennings et Shirai in Bot. Jahrb. XXVIII, p. 265, 1901. O. I. *Viburnum erosum* Thunb. var. *punctatum* Franch. et Sav. (*Thōl-Ggwāng-Namu*) (Sohōl-Myōn, Phochōn-Gun) *V. pubinerve* Bl. f. *calvescens* Nakai (*Chōng-Baikdang-Namu*) (Sohōl-Myōn, Phochōn-Gun) *V. pubinerve* Bl. f. *intermedium* Nakai (*Paikdang-Namu*) (Mt. Tairyong, Chunsōng-Gun,) Jun. 11, 1961; Mt. Sōlak, Prov. Kangwōn, Ju. I. 21, 1961;—C. J. Kim).

## 摘 要

文獻上에 나타난 韓國産銹菌을 調査整理한바 3科 32屬 208種이다. 筆者는 今般 銹菌未記錄 4屬 12種과 未記錄寄主 22種을 얻었기에 이를 包含한 總 3科 32屬 220屬種을 韓國産銹菌으로서 報告하는 바이다.

이번 追加한 銹菌韓國未記錄種은 다음 *Phakopsora zizyphi-vulgaris* Dietel, *Uromyces geranii* (DC.) Léveillé, *Uromyces lycoctoni* (Kalchbr.) Trotter, *Puccinia adenophorae* Deitel, *Puccinia allii* (DC.) Rudolphi, *Puccinia bupleuri* Rudolphi, *Puccinia longicornis* Patouillard et Hariot, *Puccinia morioakaensis* S. Ito, *Puccinia poae-pratensis* Miura, *Puccinia polygoni-weyrichii* T. Miyake ex Kwai & Otani, *Acidium alangii* Hiratsuka, f. et Yoshinaga, *Acidium philadelphia* Dietel의 12種이다.

## REFERENCES

- Engler, A. u. Prantl, K. (1897), Kie natürlichen Pflanzenfamilien, I. Teil, I. Abteilung\*\*.
- Gwynne-Vaughan, Helen (1922), Fungi. Ascomycetes, Ustilaginales.
- 原 攝祐 (1928), 東西菌類誌, 靜岡縣農學會, 359 ~364.
- Hennings, P., Fungi Monsunensis I. (Warburg, Monunia, I: 1-38, 1 Taf. (1899).
- Hiratsuka, Naohide (1930), Pucciniastrum of Japan, Bot. Mag. Tokyo, XLVI: 261-284.
- (1933), Studies on Uromyces Fabae and its related species, Jap. Journ. Bot., VI: 329-379.
- (1934), 日本銹菌類雜記 其五, 植物研究雜誌 X: 617-623.
- (1935), Uredinales collected in Korea. I, Bot. Mag. Tokyo, XLIX (579): 145-152.
- (1935), *Idem*. II, Transact. Tottori Soc. Agric. Sci., V (3): 231-236.
- (1939), *Idem*. III, *Ibid* VI (3): 185-190.
- (1940), *Idem* IV, Bot. Mag. Tokyo, LIV (647): 427-432.
- (1942), *Idem* V, *Ibid.*, LVI (662): 53-61
- (1937), Notes on Japanese Species of Uromyces, Jap. Journ. Bot., XIII (10): 729-747.
- (1939), Miscellaneous Notes on the East Asiatic Uredinales with Special Reference to the

- Japanese Species (VI), *Ibid.*, XV (10): 621-627.
15. — (1955), Uredinological Studies.
16. — (1958), Revision of Taxonomy of the Pucciniastreae.
17. — (1960), A Provisional List of Uredinales of Japan proper and the Ryukyu Islands.
18. Ito, Seiya (1938), Mycological Flora of Japan, II (2).
19. — (1950), *Idem.* II (3).
20. Jaczewski, Komarov Tranzschel (1899), Fungi Rossiae exsiccati, 220, 230 a & 324.
21. 三浦密成 (1928), 滿蒙植物誌, 第三輯繖花植物菌類 南滿洲鐵道株式會社 興業部農務課產業資料, 27.
22. Miyake, T. (1906), On Puccinia parasitic on the Umbelliferae of Japan, Jour. Sapporo Agric. Coll., II: 97-132, 1 pl.
23. 中島友輔・中川九一 (1938), 和梨赤星病二關スル研究 (第一報) 朝鮮總督府農試彙報・X(3).
24. 中田覺五郎 (1915), 朝鮮ニ於ケル果樹病害 (苹果赤星病), 舊朝農會報, X(7).
25. — (1916), — (梨, 赤星病) —, XI(6).
26. 中田覺五郎・瀧元清邊 (1928), 朝鮮作物病害目錄, 朝鮮總督府勸業模範場研究報告, 151.
27. Park, J. S. (1958), Fungous Diseases of Plants in Korea (1), Bull. Coll. Agric. Chungnam University, 1.
28. Sydow, P. & H. (1902-1904), Monographia Uredinearum, 1.
29. — (1912-1915), *Idem.* III: 50.
30. — (1923-1924), *Idem.* IV.
31. 高木五六 (1937), 朝鮮ニ於テ新ニ發見サレタルテウセンマツ, 病害, 朝鮮山林會報, 151.