

北海道において樹木に寄生する

胴枯病菌科の菌類目録

小 口 健 夫*

A list Diaporthaceae on woody plants in Hokkaido

By Takeo OGUCHI*

北海道において 胴枯病菌科の菌類は、樹幹あるいは樹枝を枯死させる病原菌として重要である。小林(1970)は日本でしられる、この科の菌類を分類学的に詳細に記述している。

この目録はいままで採集した標本あるいは、病害診断依頼を受けた標本をもとに、さきの小林の論文の中で北海道でえた菌類、寄生を加えたものである。

1. 胴枯病菌科菌類の分類大系および学名は、小林享夫(1970): 日本産ディアポルテ菌科(胴枯病菌科)菌類の分類学的研究によった。
2. 寄主植物の学名は、大井次三郎(1953): 日本植物誌により、これにないものは上原敬二(1959): 樹木大図解、森田健次郎(1962): 北海道光珠内林木育種場樹木目録(光珠内林木育種場報告 No. 1)によった。
3. 目録中*印の菌は小林の論文から引用したものである。

Melanconis TULASNE

1. *Melanconis stilbostma* (FRIES) TULASNE

Host *Betula maximowicziana* REGEL (Udai-kanba), *B. platyphylla* var. *japonica* (MIQ) HARA (Shira-kanba), *B. verrucosa* EHRH., *Betula* sp.

Conidial state: *Melanconium bicolor* NEES

Host *Betula maximowicziana* REGEL (Udai-kanba), *B. ermani* CHAN. (Dake-kanba), *B. populifolia-phylla* var. *japonica* (MIQ) HARA (Shira-kanba), *B. pubescens* EHRH., *B. populifolia* MARSH., *B. verrucosa* EHRH.

2. *Meianconis marginaiis* (PECK) WEHMEYER

Host *Alnus mayrii* CALL. (Usuge-hitoha-hannoki), *A. hirsuta* var. *microphylla* NAKAI (Kobano-yarna-hannoki)

Conidial state: *Meianconium marginaiis* WEHMEYER

Host *Ainus hirsuta* var. *microphylla* NAKAI (Kobano-yarna-hannoki), *A. mayrii* CALL. (Usuge-hitoha-hannoki), *Alnus* sp.

3. *Meianconis jugiandis* (ELLIS et EVERHART) GRAVES

Host *Jugians aiianthifolia* CARR. (Oni-guturni).

Conidial state: *Meianconium oblongum* BERKELEY

* 北海道立林業試験場 Hokkaido Forest Experiment Station, Bibai, Hokkaido.

Host *Juglans regia* var. *orientis* KITAM. (Teuchi-gurumi), *Juglans* sp

***Pseudovalsella* HÖHNEL**

1 . *Pseudovalsella theiebola* (FRIES) HÖHNEL

Host *Alnus glutinosa* (LINN.) GAERTN., *A. hirsuta* var. *microphylla* NAKAI (Kobano-yama-hannoki)

Conidial state : *Hendersonula thelebola* (SACCARDO) KOBAYASHI

Host *Alnus hirsuta* var. *microphylla* NAKAI (Kobano-yalna-hannoki), *A. glutinosa* (LINN.) GAERTN.

2 . *Pseudovalsella tetraspora* KOBAYASHI

Host *Betula PlatyPhylla* var *japonica* (MIQ.) HARA (Shita-kanba), *B. maximowicziana* REGEL (Udai-kanba)

Conidial state : *Coryneum Peduncuiatum* KOBAYASHI

***Ophiovalsa* PETRAK**

1 . *Ophiovalsa suffusa* (FRIES) PETRAK

Host *Alnus hirsuta* TURCZ. (Keyalma-hannoki), *A. hirsuta* var. *sibirica* (FISCHER) C. K. SCHN. (Yama-hannoki), *A. glutinosa* (LINN.) GAERTN., *A. hirsuta* var. *microphylla* NAKAI (Kobano-yalna-hannoki), *A. mayrii* CALL. (usuge-hitoha.hannoki), *A. incana* (LINN.) MOENCH.

Conidial state : *Disculina neesii* (CORDA) HÖHNEL

Host *Alnus japonica* var. *arguta* CALL. (Ezo-hannoki), *A. hirsuta* var. *microphylla* NAKAI (Kobano-yalna-hannoki), *A. incana* (LINN.) MOENCH., *A. hirsuta* TURCZ. (Keyama-hannoki), *A. glutinosa* (LINN.) GAERTN., *A. japonica* (THUNB.) STEUD. (Hannoki)

2 . *Ophiovalsa betulae* (TULASNE) PETRAK

Host *Betula maximowicziana* REGEL (Udai-kanba)

Conidial state : *Disculina betulina* (SACCARDO) HÖHNEL

Host *Betulia ermani* CHAM. (Dake-kanba), *B. Populfolia* MARSH., *B. maximowicziana* REGEL (Udai-kanba), *B. pubescens* EHRH., *B. uerrucosa* EHRH., *B. PlatyPhylla* var. *japonica* (MIQ.) HARA (Shita-kanba)

*3 . *Ophiovalsa femoralis* (PECK) PETRAK

Host *Alnus hirsuta* var. *microphylla* NAKAI (Kobano-yalna-hannoki)

Conidial state : Unknown

***Cryptodiaporthe* PETRAK**

1 . *Cryptodiaporthe castanea* (TULASNE) WEHMEYER

Host *Castanea crenata* SIEB. et ZUCC. (Nihon-guri), *C. Pumila* MILL. (Itariya-guri), *C. mollissima* BLUMR. (Shina-guri), *Castanea* sp,

Conidial state : *Fusicoccum castaneum* SACCARDO

2 . *Cryptodiaporthe raveneliana* (THÜMEN et REHM) KOBAYASHI

Host *Quercus mongolica* var. *grosseserrata* (BLUME) REHD. et WILS. (Mizu-nara)

Conidial state : *Fusicoccum* sp.

Host *Quercus mongolica* var. *grosseserrata* (BLUME) REHD. et WILS. (Mizu-nara)

Diaporthe NITSCHKE

1 . *Diaporthe eres* NITSCHKE

Host *Betula maximowicziana* REGEL. (Udai-kanba), *Prunus Lannesiana f. Sekiyama* (KOIDZ.) HARA (Sakura-kanzan).

Conidial state : *Phomopsis oblonga* (DESMAZIERES) HÖHNEL

Host *Alnus incana* (LINN.) MOENCH., *Betula ermani* CHAM. (Dake-kanba), *B. lenta* LINN., *B. Pubescens* EHRH., *Prunus Lannesiana f. Sekiyama* (KOIDZ.) HARA (Sakura-kanzan)

*2 . *Diaporthe conorum* (DESMAZIERES) NIESSL

Host *Abies sachalinensis* (FR. SCHM.) MASTERS (Todomatsu)

Conidial state : *phomopsis occulta* (SACCARDO) TRAVERSO

Host *Abies sachalinensis* (FR. SCHM.) MAST, (Todomatsu), *Larix leptolepis* (SIEB. et ZUCC.) GORD. (Nihon-karamatsu), *Larix gmelinivar. koreana* NAKAI (Chosen-karamatsu), *Picea sitchensis* (BONG.) CARR. (Shitoka-tohi), *Pinus strobus* LINN., *Pseudotsuga douglasii* CARR. (Daguras-Inorni)

3 . *Diaporthe medusaea* NITSCHKE

Conidial state : *Phomopsis rudis* (FRIES) HÖHNEL

Host *Populus euramericana* I-214, I-476, *P. Leipzig*; *P. charkowiensis* X P. *caudina*

4 . *Diaporthe tessella* (PERSOON) REHM

Host *Salix* sp.

Valsa FRIES

*1 . *Valsa kitajimana* KOBAYASHI

Host *Prunus yedoensis* MATSUM. (Sorneyoshino)

Conidial state : Unknown

2 . *Valsa Paulowniae* MIYABE et HEMMI

Host *Paulownia tomentosa* (THUNB.) STEUD (Kiri)

Conidial state : *Cytophoma Paulowniae* MIYABE. et HEMMI

Host *Paulownia tomentosa* (THUNB.) STEUD (Kiri)

3 . *Valsa ceratosperma* (TODE ex FRIES) MAIRE

Host *Malus Pumila* MILL. (Ringo), *Pterocarya rhoifolia* SIEB. et ZUCC. (sawa.gurumi), *Salix* sp., *Betula Platyphylla* var. *japonica* (MIQ.) HARA (Shira-kanba), *Castanea crenata* SIEB. et ZUCC. (Nihon.guri), *Betula uerrucosa* EHRH., *Populus euramericana* C.B. D., I-476, I-154, I-214, *P. Jacometii*, *P. gelrica*

Conidial state : *Cytospora rosarum* GREVILLE

Host *Malus Pumila* MILL. (Ringo), *Populus euramericana* I4214, I-455, *Betula uerrucosa* EHRH., *B. lenta* LINN.

4 . *Valsa abietis* FRIES

Host *Pinus strobus* LINN., *Thuja occidentalis* LINN. (Nioi-hiba)

Conidial state : *Cytospora abietis* SACCARDO

Host *Abies sachalinensis* (FR. SCHM.) MAST, (Todomatsu), *A. holophylla* MAX. (Chosen.inorni), *Larix leptolepis* (SIEB. et ZUCC.) GORD, (Nihon.karamatsu), *Picea sitchensis* (BONG.) CARR. (Shitoka-t6hi), *Pseudotsuga douglasii* CARR. (Dagras.momi)

5 . *Valsa sordidz* NITSCHKE

Host *Populus maximowiczii* HENRY (Doronoki), *Salix* sp.

Conidial state : *Cytospora chrysosperma* PERSOON ex FRIES

Host *Populus maxinlowiczii* HENRY (Doronoki), *P. clharkowiensis* X *P. caudina*, *P. strathgrass*, *P. euramericana* I-455, I-77, I-476, I-214, *P. alda* X *P. tacamahaca*, *P. deitoides* MARSH., *P. geirica*, *P. mariiandica*, *P. maximowiczii* X *P. berolinensis*

6 . *Valsa salicina* (PERSOON ex FRIES) FRIES

Host *Populus alba* (LINN.) (Gin-doro), *pseudotsuga douglasii* CARR; (Daguras.Inolni), *Alnus giutinosa* (LINN.) GAERTN., *Populus euranlericana* I-455, I-476, C.B.D., I-214, I-154, *P. eucalyptus* *P. Bachelierii*, *P. jacometii*, *P. mariiandica*, *P. regmerata*, *Popuius* sp., *Salix* sp.

Conidial state : *Cytospora fugax* BULL. ex FRIES

Host *Alnus hirsuta* TURCZ. (Ke-yalna-hannoki), *Popuius Jacometii*, *P. euramericana* I-214, I-476, I-154, C. B. D. *P. Bachelierii*.

7 . *Valsa ambiens* (PERSOON ex FRIES) FRIES

Host *Alnus incana* (LINN.) MOENCH., *Betulia ienta* LINN., *B. maximowicziana* REGEL (Udai-kanba), *Prillnus yedoensis* MATSUM (Someiyoshino), *P. Lannesiana* f. *Sekiyama* (KOIDZ.) HARA (Sakura-kanzan), *Castanea crenata* SIEB. et ZUCC. (Nihon-guri), *C. Pumila* MILL. (Itariya-guri), *Acer mono* MAXIM (Itaya.kaede), *Prunus* sp.

Conidial state : *Cytospora ambiens* SACCARDO

Host *Prunus yedoensis* MATSUM. (Someiyoshino)

***Leucostolna* (NITSCHKE) HÖHNEL**

1 . *Leucostoma kunzei* (FRIES) MUNK

Host *Pinus strobus* LINN.

Conidial state : *Leucocytophora kunzei* (SACCARDO) URBAN

2 . *Leucostoma nivea* (HOFFMAN ex FRIES) HÖHNEL

Host *populus euramericana* I-77, I-262, I-476, I-154, *P. alba* X *P. farqmahaca*, *P. dav;dlana* *P. angulata* X *P. incrassata*

Conidial state : *Leucocytophora nivea* (HOFFMAN) KOBAYASHI

Populus maxintowiczii HENRY (Doronoki), *P. strathgrass*, *P. maximowiczii* X *P. berolinensis*, *P. euramericana* I-214, I-476, I-154, *P. regenerata*, *P. EucalyPtus*, *P. alba* LINN. (Gin-doro), *P. Oxford-259*, *Salix* sp.

*3 . *Leucostoma massariana*, (De NOTARIS) HÖHNEL

Conidial state : *Leucocytophora massariana* (SACCARDO) URBAN

Host *Sorbus commixta* HEDL. (Nanakalnado)

*4 . *Leucostoma Persoonii* (NITSCHKE) HÖHNEL

Host *Alnus* sp. *Sorbus commixta* HEDL. (Nanakalnado)

Conidial state : *Leucocytophora leucostoma* (PERSOON) HÖHNEL

Host *Alnus incana* (LINN.) MOENCH., *Prunus Persica* (LINN.) BATSCH. (Molno), *Sorbus commixta* HEDL. (Nanakalnado)

***Endothia* FRIES**

1 . *Endothia parasitica* (MURRILL) P. J. et H. W. ANDERSON

Host *Castanea crenata* SIEB. et ZUCC. (Nihon-guri)

Conidial state : *Endothiella parasitica* ANDERSON

Host *Castanea* sp.

Valsella FUECKEL

1 . *Valsella diatrypa*(FRIES)URBAN

Host *Alnus glutinosa*(LINN.)GAERTN.

Host list

Abies

Diaporthe conorum
Phomopsis occulta
Cytospora abietis

Acer

Valsa salicina

Alnus

Melanconis marginalis
Melanconium marginale
Pseudovalsella thelebola
Hendersonula thelebola
Ophiovalsabsuffusa
Disculina neesii
Ophiovalsa femoralis
Phomopsos obionga
Valsa salicina
Cytospora fugax
Valsa ambiens
Leucostoma persoonii
Leucocytospora leucostoma
Valsella diatrypa

Betula

Melanconis stilbostoma
Melanconium bicolor
Pseudovalsella tetraspora
Ophiovalsa betulae
Disculina betulina
Diaporthe eres
Phomopsis oblonga
Valsa ceratosperma
Cytospora rosarum
Valsa Salicina

Castanea

Cryptodiaporthe castanea
Valsa ceratosperma
Valsa salicina
Endothia parasitica

Endothiella parasitica

Juglans

Melanconis juglandis
Melanconium oblongum

Larix

Phomopsis occulta
Cytophoma rosarum

Malus

Valsa ceratosperma
Cytophoma rosarum

Paulownia

Valsa paulowniae
Cytophoma paulowniae

Pterocarya

Valsa ceratosperma

Picea

Phomopsis occulta
Cytospora abietis

Pinus

Phomopsis occulta
Valsa abietis
Leucostoma kumzei

Populus

Valsa ceratosperma
Cytospora rosarum
Valsa sordida
Cytospora chrysosperma
Valsa salicina
Cytospora fugax
Leucostoma nivea
Leucocytospora nivea

Prunus

Diaporthe eres

Phomopsis oblonga
Valsa kitajimana
Valsa salicina
Valsa ambiens
Cytospora ambiens
Leucocytophora leucostoma

Pseudotsuga

Phomopsis occulta
Cytospora abietis
Valsa salicina

Quercus

Cryptodiaporthe raveneliana

Fusicoccum sp.

Salix

Diaporthe tessella
Valsa ceratosperma
Valsa sordida
Valsa salicina

Sorbus

Leucostoma massariana
Leucocytophora massariana
Leucostoma personii
Leucocytophora leucostoma