

NAMES AND AUTHORS USED FOR FUNGI AT THE
GREAT LAKES FORESTRY CENTRE

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GREAT LAKES FORESTRY CENTRE

CANADIAN FORESTRY SERVICE

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ABSTRACT

This report is a compilation of names and authors used for 243 fungi at the Great Lakes Forestry Centre. Common names and hosts and a list of the more common synonyms are included.

RÉSUMÉ

Ce rapport consiste en un répertoire des noms et des auteurs de la description de 243 fungi; ces noms sont employés au Centre forestier des Grands Lacs. Les noms vernaculaires, les noms des hôtes et les synonymes les plus courants sont aussi indiqués.

FOREWORD

This list has been prepared to serve as a guide to names and authors of those fungi commonly encountered by the Field Technicians of the Forest Insect and Disease Survey Unit at the Great Lakes Forestry Centre. Pathologists and others who have to deal with fungal nomenclature should also find this guide useful. Many recent changes in the names of fungi, as well as changes to the International Code of Botanical Nomenclature made at the XIII International Botanical Congress, are reflected in this list. Perhaps most noteworthy is the use of : in place of ex with names sanctioned by Fries (:Fr.) or Person (:Pers.).

The common names used are based on those presented in *Names of Plant Diseases in Canada* (Anon. 1975. Agriculture Quebec, Publ. QA38-R4-1, 2nd ed.), but some have been modified by the addition of a host or fungal genus. Hosts listed are those recognized in Ontario and the common names are those used in *Native Trees of Canada* (R.C. Hosie, 1979 Fitzhenry & Whiteside Ltd. in coop. with Can. For. Serv., 8th ed.). Teleomorphs (the perfect or sexual state) have been included where known and should be used in reports in preference to the name given to the anamorph (the imperfect or asexual state). The author abbreviations are those presented in *Recommended Abbreviations for the Names of Some Commonly Cited Authors of Fungi* (D.L. Hawksworth, 1980. Rev. Pl. Path. 59(II):473-480). Three indices, one using the recommended name first and accompanied by the more common synonyms, a second listing the synonyms first and accompanied by the recommended name, and a third listing common names and accompanied by the recommended Latin binomial are included. The synonyms are those in common use; many older synonyms have been omitted. Those fungi found in the tables of synonymy are indicated by an asterisk. Two lined, blank pages have been provided so that additional fungi or corrections can be listed.

We recognize that not all mycologists or pathologists will agree with our choice of names and we welcome any suggestions or corrections you wish to make. If you believe that we are in error, we would appreciate it if you would provide a reference as well as what you think the correct name should be. Also, if you think that some fungi should be added to future additions, we would welcome your suggestions. A second edition of this list will be produced in two or three years so all comments will be useful.

The authors would like to express their appreciation to the laboratory staff of the Mycology Section of the Forest Insect and Disease Survey Unit who assisted with this project in so many ways. Special thanks go to Dr. J. Ginns of the Biosystematics Research Institute in Ottawa for answering our many questions and for reviewing many of these names and authors.

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Cover photo: Tar spot, *Rhytisma acerinum* (Pers.) Fr., on red maple
(*Acer rubrum* L.).

PART I
MAIN ENTRIES*

* Listed in alphabetical order by scientific name

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)	
<i>Apiognomonina quercina</i> (Kleb.) Höhnell* ^a	A	oaks	anthracnose		
<i>Apiognomonina veneta</i> (Sacc. & Speg.) Höhnell*	A	sycamore	anthracnose		
<i>Apiosporina collinsii</i> (Schwein.) Höhnell	A	serviceberries	apiosporina witches' broom		
<i>Apiosporina morbosa</i> (Schwein.) v. Arx*	A	cherries, plums	black knot		
<i>Arceuthobium americanum</i> Nutt. ex Engel.	N/A	jack pine, black spruce	dwarf mistletoe		
<i>Arceuthobium pusillum</i> Peck	N/A	spruces, esp. black spruce	eastern dwarf mistletoe		
<i>Armillaria mellea</i> (Vahl : Fr.) Kummer*	B	hardwoods and conifers	armillaria root rot		
<i>Ascocalyx abietina</i> (Lagerb.) Schläpfer - Bernhard*	A	N. Amer. race--pines Eur. race--pines, spruces, firs, larches	scleroderris canker		
<i>Ascocoryne sarcoides</i> (Jacq. ex Gray) J.W. Groves & D. Wilson	A	spruces	pink stain		I W
<i>Asteroma caryae</i> (Peck) B. Sutton*	D	hickories	leaf spot of hickory	<i>Gnomonia caryae</i> var. <i>caryae</i>	I
<i>Asteroma fraxini</i> (Berk. & M.A. Curtis) Petraik*	D	ashes	leaf spot of ash	<i>Mycosphaerella effigurata</i>	
<i>Atopospora betulina</i> (Fr.) Petraik	A	birch	leaf spot		
<i>Aureobasidium apocryptum</i> (Ell. & Ev.) Hermanides-Nijhof*	D	maples	anthracnose		
<i>Aureobasidium pullulans</i> (de Bary) Arnaud*	D	cosmopolitan	pullularia		
<i>Bifusella linearis</i> (Peck) Höhnell*	A	eastern white pine	needle cast		
<i>Bjerkandera fumosa</i> (Fr.) Karsten*	B	hardwoods, rare on conifers	white rot of hardwoods		
<i>Blumeriella jaapii</i> (Rehm) v. Arx*	A	cherries and plums	shot-hole		
<i>Botryodiplodia hypoderma</i> (Sacc.) Petraik	D	elms	elm canker		
<i>Botryosphaeria stevensii</i> R. Shoem.	A	elms, other hardwoods	twig dieback		
<i>Botryotinia fuckeliana</i> (de Bary) Whetzel*	A	nursery stock and house plants	gray mold		
<i>Botrytis cinerea</i> Pers. : Fr.	D	nursery stock and house plants	gray mold	<i>Botryotinia fuckeliana</i>	

^a All entries with an asterisk are listed in the indices of synonymy.

^b classification by subdivision, A = Ascomycotina; B = Basidiomycotina; D - Deuteromycotina; N/A = organisms other than fungi.

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Brunchorastia pinea</i> (P. Karsten) Höhnelt	D	N. Amer. race--pines Eur. race--pines, firs, spruces, larches	scleroderris canker	<i>Ascocalyx abietina</i>
<i>Bursaphelenchus xylophilus</i> (Steiner & Buhner) Nickle*	N/A	pinets, larches	pinewood nematode	
<i>Caliciopsis pinea</i> Peck	A	eastern white pine	caliciopsis canker	
<i>Calonectria kyotensis</i> Terashita	A	conifer, nursery stock	root rot	
<i>Cenangium ferruginosum</i> Fr. : Fr.	A	jack pine, Scots pine	twig blight	
<i>Ceratocystis coerulescens</i> (Münch) Bakshi	A	hardwoods and conifers	sap streak	
<i>Ceratocystis ulmi</i> (Buism.) C. Moreau*	A	elms	Dutch elm disease	
<i>Chalara ungeri</i> Sacc.	D	hardwoods and conifers	sap streak	<i>Ceratocystis coerulescens</i>
<i>Chlorosplenium aeruginascens</i> (Nyl.) Karsten	A	rotting wood, esp. oak	green stain	
<i>Chrysomyxa arctostaphyli</i> Dietel	B	spruces alt. bearberry	spruce broom rust	
<i>Chrysomyxa ledi</i> (Alb. & Schwein.) de Bary var. <i>ledi</i> var. <i>cassandrae</i> (Peck & G.P. Clinton) Savile	B	spruces alt. Labrador tea alt. on leatherleaf	spruce needle rust	
<i>Chrysomyxa ledicola</i> (Peck) Lagerh.	B	spruces alt. Labrador tea	spruce needle rust	
<i>Chrysomyxa pirolata</i> (Körn.) Winter	B	spruces alt. pyrolas	spruce cone rust	
<i>Ciborinia whetzellii</i> (Seaver) Seaver	A	trembling aspen	ink spot of aspen	
<i>Cladosporium humile</i> J. Davis	D	maples	maple leaf spot	<i>Venturia acerina</i>
<i>Coccomyces strobis</i> J. Reid & Cain	A	eastern white pine and red pine	coccomyces canker	
<i>Coleosporium asterum</i> (Dietel) Sydow*	B	pinets alt. goldenrods, asters	pine needle rust	
<i>Coleosporium pinicola</i> (Arthur) Arthur	B	jack pine	pine needle rust	
<i>Coleosporium viburni</i> Arthur	B	jack pine alt. viburnums	pine needle rust	
<i>Colletotrichum crassipes</i> (Speg.) v. Arx	D	willows	black canker of willow	<i>Glomerella miyabeana</i>

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Coniophora puteana</i> (Schumacher : Fr.) Karsten	B	conifers and hardwoods	brown rot	
<i>Cordana pauciseptata</i> Preuss	D	maples, birches, spruces, balsam fir	blue stain	
<i>Corniculariella spina</i> (Berk. & Rav.) DiCosmo	D	hardwoods, esp. ashes	canker	<i>Durandiella fraxini</i>
<i>Coryne dubia</i> (Pers.) Gray	D	spruces	pink stain	<i>Ascoryne sarcoides</i>
<i>Coryneum umbonatum</i> Nees ex Steudel*	D	oaks	twig and shoot blight	<i>Pseudovalsa longipes</i>
<i>Cronartium coleosporioides</i> Arthur f.sp. <i>coleosporioides</i>	B	pinos alt. Indian paint brush	orange stalactiform blister rust	
<i>Cronartium comandrae</i> Peck	B	pinos alt. bastard toad flax and northern bastard toad flax	comandra blister rust	
<i>Cronartium comptoniae</i> Arthur	B	pinos alt. sweet gale, sweet fern	sweet fern blister rust	
<i>Cronartium quercuum</i> (Berk.) Miyabe ex Shirai f. sp. <i>banksianae</i>	B	pinos--jack pine, Scots pine alt. oaks	eastern gall rust	
<i>Cronartium ribicola</i> J.C. Fischer	B	eastern white pine alt. currants, gooseberries	white pine blister rust	
<i>Cryptodiaporthe hystrix</i> (Tode) Petrak	A	maples	maple dieback	
<i>Cryptodiaporthe populea</i> (Sacc.) Butin*	A	poplars	poplar canker	
<i>Cryptodiaporthe salicella</i> (Fr.) Petrak	A	willows	willow dieback	
<i>Cryptoporus volvatus</i> (Peck) Hubbard*	B	conifers	trunk rot	
<i>Cyclaneusma minus</i> (Butin) DiCosmo, Peredo & Minter*	A	pinos--Austrian, Scots and mugho	needle cast	
<i>Cyclaneusma niveum</i> (Pers. : Fr.) DiCosmo Peredo & Minter*	A	pinos	needle cast	
<i>Cylindrocladium floridanum</i> Sob. & C.P. Seym.	D	conifer nursery stock	root rot	<i>Calonectria kyotensis</i>
<i>Cylindrosporella betulae-papyriferae</i> (Dearn. & Overh.) v. Arx	D	paper birch	birch leaf spot	
<i>Cylindrosporium juglandis</i> Wolf	D	black walnut	walnut leaf spot	<i>Mycosphaerella juglandis</i>

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Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Cytospora annulata</i> Ell. & Ev.	D	maples	cytospora canker	<i>Valsa ambiens</i> spp. <i>leucostomoides</i>
<i>Cytospora chrysosperma</i> (Pers. : Fr.) Fr.	D	poplars, willows	cytospora canker	<i>Valsa sordida</i>
<i>Cytospora cincta</i> Sacc.	D	mountain-ash, cherries	branch canker	<i>Leucostoma cincta</i>
<i>Cytospora kunzei</i> Sacc.	D	spruces, tamarack	cytospora canker	<i>Leucostoma kunzei</i>
<i>Cytospora leucosperma</i> (Pers. : Fr.) Fr.	D	hardwoods	cytospora canker	<i>Valsa ambiens</i> spp. <i>ambiens</i>
<i>Cytospora leucostoma</i> (Pers. : Fr.) Fr.*	D	alders	cytospora canker	<i>Leucostoma persoonii</i>
<i>Cytospora nivea</i> (Hoffm.) Fr.*	D	willows, poplars	cytospora canker	<i>Leucostoma nivea</i>
<i>Cytospora pinastri</i> Fr.*	D	balsam fir	needle blight	<i>Valsa friesii</i>
<i>Cytospora pini</i> Desm.	D	eastern white pine	cytospora canker	<i>Valsa pini</i>
<i>Cytospora pruinosa</i> (Fr.) Sacc.*	D	white ash	cytospora canker	<i>Valsa cypri</i>
<i>Cytosporina ludibunda</i> (Sacc.) Sacc.	D	white elm	twig canker	
<i>Davisomycella ampla</i> (J. Davis) Darker*	A	jack pine	tar spot needle cast	
<i>Delphinella balsameae</i> (Waterman) E. Müller*	A	balsam fir	delphinella tip blight	
<i>Dermea balsamea</i> (Peck) Seaver	A	balsam fir, hemlock	dermea twig canker	
<i>Didymascella thujina</i> (E. Durand) Maire*	A	cedars	keithia needle blight	
<i>Didymochora betulina</i> Höhnelt	D	birch	leaf spot	<i>Atopospora betulina</i>
<i>Diplodia mutila</i> (Fr.) Mont.	D	elms and other hardwoods	diplodia twig dieback	<i>Botryosphaeria stevensii</i>
<i>Diplodia tumefaciens</i> (Shear) Zalasky*	D	poplars	rough bark	<i>Keissleriella emergens</i>
<i>Diplodina acerina</i> (Pass.) B. Sutton*	D	maples	diplodina leaf spot	<i>Cryptodiaporthe hystrix</i>
<i>Diplodina microsperma</i> (Johnston) B. Sutton*	D	willows	dieback	<i>Cryptodiaporthe salicella</i>
<i>Discosporium populeum</i> (Sacc.) B. Sutton*	D	poplars	canker and dieback	<i>Cryptodiaporthe populea</i>
<i>Discula betulina</i> (Westend.) v. Arx*	D	birches	anthracnose	
<i>Discula campestris</i> (Pass.) v. Arx*	D	maples	anthracnose	
<i>Discula platani</i> (Peck) Sacc.*	D	sycamore	anthracnose	<i>Apiognomonina venata</i>
<i>Discula quercina</i> (Westend.) v. Arx*	D	oaks	anthracnose	<i>Apiognomonina quercina</i>

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Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Dothiorella quercina</i> (Cooke & Ell.) Sacc.	D	red oaks	canker and dieback	
<i>Dothistroma septospora</i> (Dorog.) Morelet var. <i>lineare</i> (Thyr & C. Shaw) B. Sutton ^c var. <i>septospora</i> *	D	Austrian pine	red band disease	<i>Mycosphaerella pini</i>
<i>Drepanopeziza populi-albae</i> (Kleb.) Nannf.	A	poplars	poplar leaf spot	
<i>Drepanopeziza populorum</i> (Desm.) Höhnelt	A	poplars	poplar leaf spot	
<i>Durandiella fraxini</i> (Schwein. : Fr.) Seaver	A	hardwoods, esp. ashes	canker, branch dieback	
<i>Endocronartium harknessii</i> (J.P. Moore) Y. Hirats.	B	pinus	western gall rust	
<i>Erwinia amylovora</i> (Burr.) Winslow et al. ^d	N/A	mountain-ash, apples, flowering crabs	fire blight	
<i>Eutypella parasitica</i> Davidson & Lorenz	A	sugar maple	eutypella canker	
<i>Fomes fomentarius</i> (Fr.) Kickx	B	hardwoods	white mottled rot	
<i>Fomitopsis pinicola</i> (Swartz : Fr.) Karsten*	B	hardwoods and conifers	brown crumbly rot	
<i>Foveostroma abietinum</i> (Peck) DiCosmo*	D	balsam fir, hemlock, eastern white pine	twig canker	<i>Dermea balsamea</i>
<i>Ganoderma applanatum</i> (Pers.) Pat.*	B	hardwoods, occasional on conifers	white mottled rot	
<i>Ganoderma lucidum</i> (Curt. : Fr.) Karsten*	B	hardwoods, conifers	root and butt rot	
<i>Gloeophyllum saepiaria</i> (Wulfen : Fr.) Karsten*	B	spruces, pines	brown cubical rot	
<i>Glomerella miyabeana</i> (Fukushi) v. Arx*	A	willows	black canker of willow	
<i>Gnomonia caryae</i> Wolf var. <i>caryae</i>	A	hickories	anthracnose	
<i>Gnomonia leptostyla</i> (Fr.) Ces. & de Not.	A	walnuts	anthracnose	
<i>Guignardia aesculi</i> (Peck) Stewart	A	horse-chestnut	leaf blotch	
<i>Gymnosporangium clavipes</i> (Cooke & Peck) Cooke & Peck	B	junipers, alt. hawthorns, serviceberries	quince rust	

^c *D. septospora* var. *lineare* not currently found in Ontario.

^d C.-E.A. Winslow as chairman of a committee on bacterial nomenclature established by the Society of American Bacteriologists.

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Gymnosporangium cornutum</i> Arthur ex Kern	B	junipers, alt. mountain-ash	gall rust	
<i>Gymnosporangium globosum</i> Farlow	B	junipers, alt. hawthorns	globose gall rust	
<i>Gymnosporangium juniperi-virginianae</i> Schwein.	B	junipers alt. apples	cedar-apple rust	
<i>Heterobasidion annosum</i> (Fr.) Bref.*	B	conifers	fomes root rot	
<i>Hypodermella laricis</i> Tubeuf	A	larches	larch needle cast	
<i>Hypoxylon cohaerens</i> Pers. : Fr.	A	beech	canker and dieback	
<i>Hypoxylon mammatum</i> (Wahlenb.) J. Miller*	A	maples, poplars, yellow birch	hypoxylon canker	
<i>Inonotus circinatus</i> (Fr.) Gilbertson*	B	conifers	circinatus root rot	
<i>Inonotus obliquus</i> (Pers. : Fr.) Pilát*	B	birches	white spongy rot	
<i>Inonotus tomentosus</i> (Fr.) Gilbertson*	B	conifers	tomentosus root rot	
<i>Irpex tulipiferae</i> (Schwein.) Fr.*	B	hardwoods	white sap rot	
<i>Ischnoderma resinotum</i> (Schrader : Fr.) Karsten*	B	hardwoods and conifers	trunk rot	
<i>Isthmiella crepidiformis</i> (Darker) Darker*	A	black spruce	needle cast	
<i>Isthmiella faullii</i> (Darker) Darker*	A	balsam fir	needle cast	
<i>Kabatiella borealis</i> (Ell. & Ev.) v. Arx*	D	poplars, willows	anthracnose	
<i>Kabatina thujae</i> A. Schneider & v. Arx var. <i>juniperi</i> (A. Schneider & v. Arx) Morelet var. <i>thujae</i>	D	junipers, cedars	needle blight	
<i>Keissleriella emergens</i> (Karsten) Bose	A	poplars	rough bark	
<i>Lecanosticta acicola</i> (Thüm.) H. Sydow	D	pinus	brown-spot needle blight	<i>Mycosphaerella dearnessii</i>
<i>Leucostoma cincta</i> (Fr.) Höhnel*	A	mountain-ash, cherries	branch canker	
<i>Leucostoma kunzei</i> (Fr.) Munk	A	tamarack, spruces, eastern white pine	cytophora canker	
<i>Leucostoma nivea</i> (Hoffm. : Fr.) Höhnel	A	willows, poplars	cytophora canker	
<i>Leucostoma personii</i> (Nitschke) Höhnel	A	alders	cytophora canker	
<i>Linospora arctica</i> Karsten var. <i>helvetica</i> Rehm	A	willows	linospora leaf blight	

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Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Linospora tetraspora</i> G.E. Thompson	A	balsam poplar	linospora leaf blight	
<i>Lirula mirabilis</i> (Darker) Darker*	A	balsam fir	needle cast	
<i>Lirula nervata</i> (Darker) Darker*	A	balsam fir	needle cast	
<i>Lophodermella montivaga</i> Petrak*	A	pinus	needle cast	
<i>Lophodermella sulcigena</i> (Rostrup) Höhnel*	A	pinus	needle cast	
<i>Lophodermium australe</i> Dearn.	A	pinus	needle cast	
<i>Lophodermium conigenum</i> (Brunaud) Hilitz.	A	pinus	needle cast	
<i>Lophodermium juniperinum</i> (Fr.) de Not.*	A	junipers	needle cast	
<i>Lophodermium nitens</i> Darker	A	white and red pine seedlings	needle cast	
<i>Lophodermium piceae</i> (Fuckel) Höhnel	A	spruces	needle cast	
<i>Lophodermium pinastri</i> (Schrader : Fr.) Chev.	A	pinus	needle cast	
<i>Lophodermium seditiosum</i> Minter, Staley & Millar	A	pinus	needle cast	
<i>Lophophacidium dooksii</i> Corlett & R. Shoem.	A	eastern white pine	needle blight	
<i>Lophophacidium hyperboreum</i> Lagerb.	A	spruces	snow blight	
<i>Marssonina brunnea</i> (Ell. & Ev.) Magnus*	D	poplars	marssonina leaf spot	
<i>Marssonina castagnei</i> (Desm. & Mont.) Magnus*	D	poplars	marssonina leaf spot	<i>Drepanopeziza populi-albae</i>
<i>Marssonina juglandis</i> (Lib.) Magnus	D	hickories, walnuts	hickory leaf spot	<i>Gnomonia leptostyla</i>
<i>Marssonina populi</i> (Lib.) Magnus*	D	poplars	marssonina leaf spot	<i>Drepanopeziza populorum</i>
<i>Marssonina rhabdospora</i> (Ell. & Ev.) Magnus	D	poplars	marssonina leaf spot	<i>Pleuroceras populi</i>
<i>Massaria inquinans</i> (Tode : Fr.) de Not.*	A	sugar maple	leaf spot	
<i>Melampsora abietis-capraearum</i> Tubeuf	B	balsam fir, alt. willows	fir-willow, rust	
<i>Melampsora abietis-canadensis</i> C.A. Ludwig ex Arthur	B	eastern hemlock, alt. poplars	hemlock-poplar rust	
<i>Melampsora epitea</i> Thüm.	B	eastern hemlock, alt. willows	hemlock-willow rust	

(cont'd)

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Melampsora medusae</i> Thüm.*	B	tamarack, alt. poplars	larch-poplar rust	
<i>Melampsora paradoxa</i> Dietel & Holway	B	tamarack, alt. willows	larch-willow rust	
<i>Melampsorella caryophyllacearum</i> Schröter	B	balsam fir	fir broom rust	
<i>Melasmia acerina</i> Lév.	D	maples	tar spot	<i>Rhytisma acerinum</i>
<i>Melasmia punctata</i> Sacc. & Roum.	D	maples	speckle tar spot	<i>Rhytisma punctatum</i>
<i>Melasmia salicina</i> Lév.	D	maples	tar spot	<i>Rhytisma salicinum</i>
<i>Meria laricis</i> Vuill.	D	European larch	larch needle cast	
<i>Microstroma juglandis</i> (Bereng.) Sacc.	D	hickories, walnuts, butternut	white mold	
<i>Monilinia fructicola</i> (Winter) Honey*	A	cherries	brown rot	
<i>Monostichella robergei</i> (Desm.) Höhnelt*	D	blue beech	leaf spot	<i>Sphaerognomonia carpinea</i>
<i>Monostichella salicis</i> (Westend.) v. Arx*	D	willows	black canker	
<i>Mycosphaerella dearnessii</i> Barr*	A	pinus	brown-spot needle blight	
<i>Mycosphaerella effigurata</i> (Schwein.) House	A	ashes	ash leaf spot	
<i>Mycosphaerella juglandis</i> Kessler	A	black walnut	walnut leaf spot	
<i>Mycosphaerella pini</i> Rostrup	A	Austrian pine	red band disease	
<i>Mycosphaerella populicola</i> G.E. Thompson	A	balsam poplar, other poplars	septoria leaf spot	
<i>Mycosphaerella populorum</i> G.E. Thompson	A	balsam poplar, exotics and hybrids	septoria leaf spot	
<i>Nectria cinnabarina</i> (Tode : Fr.) Fr.*	A	hardwoods	nectria canker	
<i>Nectria galligena</i> Bresad.	A	hardwoods	nectria canker	
<i>Nothophacidium abietinellum</i> (Dearn.) J. Reid & Cain*	A	balsam fir	snow blight	
<i>Oxyporus populinus</i> (Schumacher : Fr.) Donk*	B	maples and other hardwoods	white spongy rot	
<i>Pesotum ulmi</i> (Schwarz) Crane & Schoknecht*	D	elms	Dutch elm disease	<i>Ceratocystis ulmi</i>
<i>Phacidium abietis</i> (Dearn.) J. Reid & Cain*	A	conifers	snow blight	

(cont'd)

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Phacidium balsamicola</i> (Smerlis) DiCosmo, Nag Raj & Kendrick*	A	firs	snow blight	
<i>Phacidium coniferarum</i> (Hahn) DiCosmo, Nag Raj & Kendrick*	A	conifers	snow blight	
<i>Phacidium infestans</i> Karsten	A	conifers	snow blight	
<i>Phaeocryptopus gaeumannii</i> (Rohde) Petrak*	A	Douglas fir	Swiss needle cast	
<i>Phaeolus schweinitzii</i> (Fr.) Pat.*	B	hardwoods and conifers	brown cubical rot	
<i>Phaeoramularia maculicola</i> (Romell & Sacc.) B. Sutton*	D	poplars	leaf spot	
<i>Phellinus everhartii</i> (Ell. & Gall.) A. Ames*	B	hardwoods	white spongy rot	
<i>Phellinus igniarius</i> (L. : Fr.) Quélet*	B	hardwoods, esp. willows	white trunk rot	
<i>Phellinus pini</i> (Brot. : Fr.) A. Ames*	B	conifers	red ring rot	
<i>Phellinus tremulae</i> (Bondartsev) Bondartsev ^e & Borisov*	B	poplars	white trunk rot	
<i>Phloesporella padi</i> (Lib.) v. Arx*	D	cherries and plums	shot-hole	<i>Blumeriella jaapii</i>
<i>Phyllactinia guttata</i> (Wallr. : Fr.) Lév.	A	hazelnut	powdery mildew	
<i>Phyllosticta minima</i> (Berk. & Curt.) Underw. & Earle	D	maples	leaf spot	
<i>Phyllosticta negundinis</i> Sacc. & Speg.	D	Manitoba maple	leaf spot	
<i>Phyllosticta sphaeropsoides</i> Ell. & Ev.*	D	horse-chestnut	leaf blotch	<i>Guignardia aesculi</i>
<i>Pleuroceras populi</i> G.E. Thompson	A	poplars	leaf spot	
<i>Podosphaera clandestina</i> (Wallr.: Fr.) Lév.*	A	serviceberries	powdery mildew	
<i>Pollaccia elegans</i> Servit	D	balsam poplar	shoot blight	<i>Venturia populina</i>
<i>Pollaccia radiosa</i> (Lib.) Bald. & Cif.	D	trembling aspen	shoot blight of aspen	<i>Venturia macularis</i>
<i>Pollaccia saliciperda</i> (Allescher & Tubeuf) v. Arx*	D	willows	willow scab	<i>Venturia salciciperda</i>
<i>Pseudovalsa longipes</i> (Tul.) Sacc.	A	oaks	twig and shoot blight	

^e Also as Bondarcev or Bondartzev.

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Pucciniastrum epilobii</i> Otth	B	balsam fir, alt. fireweed	fireweed rust	
<i>Pucciniastrum goeppertianum</i> (Kühn) Kleb.	B	balsam fir alt. blueberry	witches' broom on blueberry	
<i>Pycnoporus cinnabarinus</i> (Jacq. : Fr.) Karsten*	B	hardwoods, rarely conifers	white sap rot	
<i>Rhabdocline pseudotsugae</i> Sydow ssp. <i>pseudotsugae</i>	A	Douglas fir	rhabdocline needle cast	
<i>Rhizina undulata</i> Fr.*	A	conifers, esp. seedlings, follows burns	tea pot fungus	
<i>Rhizosphaera kalkhoffii</i> Bubák	D	spruces	needle blight	
<i>Rhizosphaera pini</i> (Corda) Maubl.*	D	balsam fir, spruces	needle blight	
<i>Rhytisma acerinum</i> (Pers.) Fr.*	A	maples	tar spot	
<i>Rhytisma punctatum</i> (Pers.) Fr.	A	maples	speckle tar spot	
<i>Rhytisma salicinum</i> (Pers.) Fr.	A	willows	tar spot	
<i>Sarcotrochila balsameae</i> (J. Davis) Korf*	A	balsam fir	snow blight	
<i>Sarcotrochila piniperda</i> (Rehm) Korf	A	spruces	snow blight	
<i>Schizophyllum commune</i> Vaill. : Fr.	B	hardwoods, some conifers		
<i>Sclerophoma pythiophila</i> (Corda) Höhnelt	D	pinus, black spruce, junipers	needle blight	<i>Sydowia polyspora</i>
<i>Scolecconectria cucurbitula</i> (Tode : Fr.) C. Booth	A	pinus, balsam fir	canker and dieback	
<i>Septoria aceris</i> (Lib.) Berk. & R. Br.	D	maples	septoria leaf spot	
<i>Septoria betulae</i> Pass.*	D	birches	leaf blight	
<i>Septoria musiva</i> Peck	D	poplars	septoria canker	<i>Mycosphaerella populorum</i>
<i>Septoria populicola</i> Peck	D	poplars, esp. balsam poplar	leaf spot	<i>Mycosphaerella populicola</i>
<i>Sirococcus conigenus</i> (DC.) P. Cannon & Minter*	D	pinus, blue spruce	shoot blight	
<i>Sphaerognomonia carpinea</i> (Fr.) Potebnia	A	blue beech	leaf spot	
<i>Sphaeropsis sapinea</i> (Fr.) Dyko & B. Sutton*	D	pinus, usually Scots and Austrian	tip blight	

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Spilocaea pomi</i> Fr.	D	apples, hawthorns, mountain-ash	apple scab	<i>Venturia inaequalis</i>
<i>Spiniger meineckellus</i> (A. Olson) Stalpers*	D	conifers, maples, chestnut, elms	fomes root rot	<i>Heterobasidion annosum</i>
<i>Stegonsporium acerinum</i> Peck*	D	maples		
<i>Stegonsporium pyriforme</i> (Hoffm. : Fr.) Corda*	D	maples		
<i>Sydowia polyspora</i> (Bref. & Tav.) E. Müller*	A	piners, black spruce, junipers	needle blight	
<i>Taphrina caerulescens</i> (Mont. & Desm.) Tul.	A	most oaks, not white oaks	leaf-blister	
<i>Taphrina communis</i> (Sadeb.) Gies.	A	cherries and plums	plum pockets	
<i>Therrya fuckelii</i> (Rehm) Kujala	A	piners	therrya canker	
<i>Trichoderma viride</i> Pers. : Fr.	D	cosmopolitan	trichoderma	
<i>Tubakia dryina</i> (Sacc.) B. Sutton*	D	principally oaks, but may be found on other hardwoods	leaf spot	
<i>Tubercularia vulgaris</i> Tode : Fr.	D	hardwoods	nectria canker	<i>Nectria cinnabarina</i>
<i>Tympanis hypopodia</i> Nyl.	A	jack pine, eastern white pine lodgepole pine	tympanis canker	
<i>Tyromyces balsameus</i> (Peck) Merrill*	B	conifers, esp. spruces and larches	brown cubical rot	
<i>Uncinula adunca</i> (Wallr. : Fr.) Lév.*	A	poplars, willows	powdery mildew	
<i>Valsa ambiens</i> (Pers. : Fr.) Fr. ssp. <i>ambiens</i>	A	hardwoods	cytospora canker	
<i>Valsa ambiens</i> (Pers. : Fr.) Fr. spp. <i>leucostomoides</i> (Peck) Spielman	A	maples	cytospora canker	
<i>Valsa cypri</i> (Tul.) Tul. & C. Tul.*	A	white ash	cytospora canker	
<i>Valsa friesii</i> (Duby) Fuckel	A	balsam fir	dieback	
<i>Valsa pini</i> Alb. & Schwein.: Fr.	A	eastern white pine	cytospora canker	
<i>Valsa sordida</i> Nitschke	A	poplars, willows	cytospora canker	
<i>Venturia acerina</i> Plakidas ex Barr	A	sugar maple, red maple	leaf spot	
<i>Venturia inaequalis</i> (Cooke) Winter*	A	apples, hawthorns, mountain ash	apple scab	

(cont'd)

(concl.)

Scientific name and author(s)	Subdi- vision ^b	Hosts	Common name	Teleomorph (if applicable)
<i>Venturia macularis</i> (Fr.) E. Müller & v. Arx*	A	trembling aspen	shoot blight	
<i>Venturia populina</i> (Vuill.) Fabric.	A	balsam poplar	shoot blight	
<i>Venturia saliciperda</i> Nüesch	A	willows	willow scab	
<i>Verticicladiella procera</i> Kendrick	D	red pine, eastern white pine	black root stain	
<i>Verticillium albo-atrum</i> Reinke & Berth.	D	hardwoods	verticillium wilt	
<i>Verticillium dahliae</i> Kleb.	D	hardwoods	verticillium wilt	
<i>Zythia aurantiaca</i> (Peck) Sacc.	D	dogwoods	canker	
<i>Zythiostroma pinastri</i> (Karsten) Höhnelt	D	pinet, balsam fir	canker and dieback	<i>Scolecconectria cucurbitula</i>

Future Considerations:

Pollaccia americana Ondrej

Pollaccia ramulosa (Desm.) Ondrej

As suggested by M. Ondrej in "Ein Beitrag zur Kenntnis der parasitischen imperfekten Pilz der Gattung *Pollaccia* Bald. et Cif. an Rappeln (*Populus* spp.)" Eur. J. For. Path. 2 (1972) 140-146.

See also Morelet, M. 1985. Les *Venturis* des peupliers de la section *Leuce* I. - Taxinomie. Cryptog. Mycol. 6:101-117.

PART II

INDEX OF RECOMMENDED NAMES WITH THE MORE COMMON SYNONYMS

- Apiognomonia quercina* (Kleb.) Höhnel
syn. *Gnomonia quercina* Kleb.
- Apiognomonia veneta* (Sacc. & Speg.) Höhnel
syn. *Gnomonia venata* (Sacc. & Speg.) Kleb.
syn. *Gnomonia platani* Kleb.
- Apiosporina morbosa* (Schwein.) v. Arx
syn. *Dibotryon morbosum* (Schwein.) Theiss. & Syd.
- Armillaria mellea* (Vahl : Fr.) Kummer
syn. *Armillariella mellea* (Vahl : Fr.) P. Karsten
- Ascocalyx abietina* (Lagerb.) Schläpfer-Bernhard
syn. *Gremmeniella abietina* (Lagerb.) Morelet
syn. *Scleroderris lagerbergii* Gremmen
- Asteroma caryae* (Peck) B. Sutton
syn. *Cylindrosporella caryae* (Peck) Petrak
- Asteroma fraxini* (Berk. & M.A. Curtis) Petrak
syn. *Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev.
- Aureobasidium apocryptum* (Ell. & Ev.) Hermanides-Nijhof
syn. *Kabatiella apocrypta* (Ell. & Ev.) v. Arx
- Aureobasidium pullulans* (de Bary) Arnaud
syn. *Pullularia pullulans* (de Bary) Berkhout
- Bifusella linearis* (Peck) Höhnel
syn. *Hypoderma lineare* (Peck) Thüm.
- Bjerkandera fumosa* (Fr.) Karsten
syn. *Polyporus fumosus* (Fr.) Pers.
- Blumeriella jaapii* (Rehm) v. Arx
syn. *Coccomyces hiemalis* Higg.
syn. *Coccomyces prunophorae* Higg.
- Botryotinia fuckeliana* (de Bary) Whetzel
syn. *Sclerotinia fuckeliana* (de Bary) Fuckel
- Bursaphelenchus xylophilus* (Steiner & Buhner) Nickle
syn. *Bursaphelenchus lignicolus* Mamiya & Kiyohara
- Ceratocystis ulmi* (Buism.) C. Moreau
syn. *Ophiostoma ulmi* (Buism.) Nannf.
- Coleosporium asterum* (Dietel) Sydow
syn. *Coleosporium solidiganis* Thüm.

- Coryneum umbonatum* Nees ex Steudel
syn. *Coryneum kunzei* Corda
- Cryptoporus volvatus* (Peck) Hubbard
syn. *Polyporus volvatus* Peck
- Cyclaneusma minus* (Butin) DiCosmo, Peredo & Minter
syn. *Naemacyclus minor* Butin
- Cyclaneusma niveum* (Pers. : Fr.) DiCosmo, Peredo & Minter
syn. *Naemacyclus niveus* (Pers. : Fr.) Fuckel ex Sacc.
- Cytospora leucostoma* (Pers. : Fr.) Fr.
syn. *Leucocytospora leucostoma* (Pers.) Höhnelt
- Cytospora nivea* (Hoffm.) Fr.
syn. *Leucocytospora nivea* (Hoffm.) Kobayashi
- Cytospora pinastri* Fr.
syn. *Cytospora friesii* Sacc.
- Cytospora pruinosa* (Fr.) Sacc.
syn. *Cytophoma pruinosa* (Fr.) Höhnelt
- Davisomycella ampla* (J. Davis) Darker
syn. *Hypodermella ampla* (J. Davis) Dearn.
- Delphinella balsameae* (Waterman) E. Müller
syn. *Rehmiellopsis balsameae* Waterman
- Didymascella thujiana* (E. Durand) Maire
syn. *Keithia thujina* E. Durand
- Diplodia tumefaciens* (Shear) Zalasky
syn. *Macrophoma tumefaciens* Shear
- Diplodina acerina* (Pass.) B. Sutton
syn. *Discella acerina* (Pass.) v. Arx
- Diplodina microsperma* (Johnston) B. Sutton
syn. *Discella carbonacea* (Fr.) Berk. & Broome
- Discosporium populeum* (Sacc.) B. Sutton
syn. *Dothichiza populea* Sacc. & Briard
- Discula betulina* (Westend.) v. Arx
syn. *Gloeosporium betulinum* Westend.
- Discula campestris* (Pass.) v. Arx
syn. *Gloeosporium campestre* Pass.
- Discula platani* (Peck) Sacc.
syn. *Gloeosporium platani* (Mont.) Oudem.

- Discula quercina* (Westend.) v. Arx
syn. *Gloeosporium quercinum* Westend.
- Dothistroma septospora* (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
syn. *Dothistroma pini* Hulb.
- Dothistroma septospora* (Dorog.) Morelet var. *septospora*
syn. *Dothistroma pini* Hulb.
- Fomitopsis pinicola* (Swartz : Fr.) Karsten
syn. *Fomes pinicola* (Swartz : Fr.) Cooke
- Foveostroma abietinum* (Peck) DiCosmo
syn. *Gelatinosporium abietinum* Peck
- Ganoderma applanatum* (Pers.) Pat.
syn. *Fomes applanatus* (Pers. ex Wallr.) C. Gillet
syn. *Polyporus applanatus* Gray
- Ganoderma lucidum* (Curt. : Fr.) Karsten
syn. *Ganoderma tsugae* Murrill
- Gloeophyllum saepiaria* (Wulfen : Fr.) Karsten
syn. *Lenzites saepiaria* (Wulfen : Fr.) Fr.
- Glomerella miyabeana* (Fukushi) v. Arx
syn. *Physalospora miyabeana* Fukushi
- Heterobasidion annosum* (Fr.) Bref.
syn. *Fomes annosus* (Fr.) Karsten
- Hypoxylon mammatum* (Wahlenb.) J. Miller
syn. *Hypoxylon pruinaum* (Klozt.) Cooker
- Inonotus circinatus* (Fr.) Gilbertson
syn. *Polyporus circinatus* Fr.
- Inonotus obliquus* (Pers. : Fr.) Pilát
syn. *Poria obliqua* (Pers. : Fr.) Karsten
- Inonotus tomentosus* (Fr.) Gilbertson
syn. *Polyporus tomentosus* Fr.
- Irpex tulipiferae* (Schwein.) Fr.
syn. *Polyporus tulipiferae* (Schwein.) Overh.
- Ischnoderma resinosum* (Schrader : Fr.) Karsten
syn. *Polyporus resinosus* (Fr.) Schrader
- Isthmiella crepidiformis* (Darker) Darker
syn. *Bifusella crepidiformis* Darker

- Isthmiella faullii* (Darker) Darker
syn. *Bifusella faullii* Darker
- Kabatiella borealis* (Ell. & Ev.) v. Arx
syn. *Gloeosporium boreale* Ell. & Ev.
- Lirula mirabilis* (Darker) Darker
syn. *Hypodermella mirabilis* Darker
- Lirula nervata* (Darker) Darker
syn. *Hypodermella nervata* Darker
- Lophodermella montivaga* Petrak
syn. *Hypodermella montivaga* (Petrak) Dearn.
- Lophodermella sulcigena* (Rostrup) Höhnelt
syn. *Hypodermella sulcigenum* (Rostrup) Tubeuf
- Lophodermium juniperinum* (Fr.) de Not.
syn. *Lophodermium juniperi* (Grev.) Darker
- Marssonina brunnea* (Ell. & Ev.) Magnus
syn. *Gloeosporium brunneum* Ell. & Ev.
- Marssonina castagnei* (Desm. & Mont.) Magnus
syn. *Gloeosporium castagnei* Desm. & Mont.
- Marssonina populi* Lib.
syn. *Leptothyrium populi* Lib.
- Massaria inquinans* (Tode : Fr.) de Not.
syn. *Sphaeria inquinans* (Tode) Fr.
- Melampsora medusae* Thüm.
syn. *Uredo medusae* (Thüm.) Arthur
- Monilinia fructicola* (Winter) Honey
syn. *Sclerotinia fructicola* (Winter) Rehm
- Monostichella robergei* (Desm.) Höhnelt
syn. *Gloeosporium robergei* Desm.
- Monostichella salicis* (Westend.) v. Arx
syn. *Gloeosporium salicis* Westend.
- Mycosphaerella dearnessii* Barr
syn. *Scirrhia acicola* (Dearn.) Siggers
- Nectria cinnabarina* (Tode : Fr.) Fr.
syn. *Sphaeria cinnabarina* Tode
- Nothophaacidium abietinellum* (Dearn.) J. Reid & Cain
syn. *Phacidium abietinellum* Dearn.

- Oxyporus populinus* (Schumacher : Fr.) Donk
syn. *Fomes connatus* (Weinm.) C. Gillet
- Pesotum ulmi* (Schwarz) Crane & Schoknecht
syn. *Graphium ulmi* Schwarz
- Phacidium abietis* (Dearn.) J. Reid & Cain
syn. *Phacidium infestans* Karsten var. *abietis* Dearn.
- Phacidium balsamicola* (Smerlis) DiCosmo, Nag Raj & Kendrick
syn. *Potebniamyces balsamicola* Smerlis var. *balsamicola* Smerlis
- Phacidium coniferarum* (Hahn) DiCosmo, Nag Raj & Kendrick
syn. *Potebniamyces coniferarum* (Hahn) Smerlis
- Phaeocryptopus gaeumannii* (Rohde) Petrak
syn. *Adelopus gaeumannii* Rhode
- Phaeolus schweinitzii* (Fr.) Pat.
syn. *Polyporus schweinitzii* Fr.
- Phaeoramularia maculicola* (Romell & Sacc.) B. Sutton
syn. *Cladosporium subsessile* Ell. & Barth.
- Phellinus everhartii* (Ell. & Gall.) A. Ames
syn. *Fomes everhartii* (Ell. & Gall.) von Schrenk & Spaulding
- Phellinus igniarius* (L. : Fr.) Quélet
syn. *Fomes igniarius* (L. : Fr.) Kickx
- Phellinus pini* (Brot. : Fr.) A. Ames
syn. *Fomes pini* (Thore : Fr.) Karsten
- Phellinus tremulae* (Bondartsev) Bondartsev & Borisov
syn. *Fomes igniarius* f. *tremulae* Bondartsev
- Phloesporella padi* (Lib.) v. Arx
syn. *Cylindrosporium hiemalis* Higg.
syn. *Cylindrosporium prunophorae* Higg.
- Phyllosticta sphaeropsoidea* Ell. & Ev.
syn. *Phyllostictina sphaeropsoidea* (Ell. & Ev.) Petrak
- Podosphaera clandestina* (Wallr. : Fr.) Lév.
syn. *Erysiphe clandestina* Wallr. : Fr.
- Pollaccia saliciperda* (Allescher & Tubeuf) v. Arx
syn. *Fusicladium saliciperdum* (Allescher & Tubeuf) Tubeuf
- Pycnoporus cinnabarinus* (Jacq. : Fr.) Karsten
syn. *Polyporus cinnabarinus* Jacq. : Fr.

- Rhizina undulata* Fr.
syn. *Rhizina inflata* P. Karsten
- Rhizosphaera pini* (Corda) Maubl.
syn. *Coniothyrium pini* Corda
- Rhytisma acerinum* (Pers.) Fr.
syn. *Xyloma acerinum* Pers.
- Sarcotrochila balsameae* (J. Davis) Korf
syn. *Phacidium balsameae* J. Davis
- Septoria betulae* Pass.
syn. *Septoria betulicola* Peck
- Sirococcus conigenus* (DC.) P. Cannon & Minter
syn. *Sirococcus strobilinus* Preuss
- Sphaeropsis sapinea* (Fr.) Dyko & B. Sutton
syn. *Diplodia pinea* (Desm.) Kickx
- Spiniger meineckellus* (A.J. Olson) Stalpers
syn. *Oedocephalum lineatum* Bakshi
syn. *Oedocephalum meineckellus* (A.J. Olson) Donk
- Stegonsporium acerium* Peck
syn. *Stegonsporium pyriforme* (Hoffm. : Fr.) Corda
- Stegonsporium pyriforme* (Hoffm. : Fr.) Corda
syn. *Steganosporium ovatum* (Pers. ex Mérat) S. Hughes
- Sydowia polyspora* (Bref. & Tav.) E. Müller
syn. *Rehmiellopsis bohémica* Bubak and Kleb.
- Tubakia dryina* (Sacc.) B. Sutton
syn. *Actinopelte dryina* (Sacc.) Höhnelt
- Tyromyces balsameus* (Peck) Murrill
syn. *Polyporus balsameus* Peck
- Uncinula adunca* (Wallr. : Fr.) Lév.
syn. *Uncinula salicis* (DC.) Winter
- Valsa cypri* (Tul.) Tul.
syn. *Valsa fraxinina* Peck
- Venturia inaequalis* (Cooke) Winter
syn. *Sphaerella inaequalis* Cooke
- Venturia macularis* (Fr.) E. Müller & v. Arx
syn. *Sphaeria macularis* Fr.

PART III

INDEX OF COMMON SYNONYMS OF RECOMMENDED NAMES

- Actinopelte dryina* (Sacc.) Höhnel
Tubakia dryina (Sacc.) B. Sutton
- Adelopus gaeumannii* Rhode
Phaeocryptorus gaeumannii (Rhode) Petrak
- Armillariella mellea* (Vahl : Fr.) P. Karsten
Armillaria mellea (Vahl : Fr.) Kummer
- Bifusella crepidiformis* Darker
Isthmiella crepidiformis (Darker) Darker
- Bifusella faullii* Darker
Isthmiella faullii (Darker) Darker
- Bursaphelenchus lignicolous* Mamiya & Kiyohara
Bursaphelenchus xylophilus (Steiner & Buhrer) Nickle
- Ciboria fructicola* Winter
Monilinia fructicola (Winter) Honey
- Cladosporium subsessile* Ell. & Barth.
Phaeoramularia maculicola (Romell & Sacc.) B. Sutton
- Coccomyces hiemalis* Higg.
Blumeriella jaapii (Rehm) v. Arx
- Coccomyces prunophorae* Higg.
Blumeriella jaapii (Rehm) v. Arx
- Coleosporium solidiganis* Thüm.
Coleosporium asterum (Dietel) Sydow
- Coniothyrium pini* Corda
Rhizosphaera pini (Corda) Maubl.
- Coryneum kunzei* Corda
Coryneum umbonatum Nees ex Steudel
- Cylindrosporella caryae* (Peck) Petrak
Asteroma caryae (Peck) B. Sutton
- Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev.
Asteroma fraxini (Berk. & M.A. Curtis) Petrak
- Cylindrosporium hiemalis* Higg.
Phloesporella padi (Lib.) v. Arx
- Cylindrosporium prunophorae* Higg.
Phloesporella padi (Lib.) v. Arx
- Cytophoma pruinosa* (Fr.) Höhnel
Cytospora pruinosa (Fr.) Sacc.

- Cytospora friesii* Sacc.
Cytospora pinastri Fr.
- Dibotryon morbosum* (Schwein.) Theiss. & Sydow
Apiosporina morbosa (Schwein.) v. Arx
- Diplodia pinea* (Desm.) Kickx
Sphaeropsis sapinea (Fr.) Dyko & B. Sutton
- Discella acerina* (Pass.) v. Arx
Diplodina acerina (Pass.) B. Sutton
- Discella carbonacea* (Fr.) Berk. & Broome
Diplodina microsperma (Johnston) B. Sutton
- Dothichiza populea* Sacc. & Briard
Discosporium populeum (Sacc.) B. Sutton
- Dothistroma pini* Hulb.
Dothistroma septospora (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
Dothistroma septospora (Dorog.) Morelet var. *septospora*
- Erysiphe clandestina* Wallr. : Fr.
Podosphaera clandestina (Wallr. : Fr.) Lév.
- Fomes annosus* (Fr.) Karsten
Heterobasidion annosum (Fr.) Bref.
- Fomes applanatus* (Pers. ex Wallr.) C. Gillet
Ganoderma applanatum (Pers.) Pat.
- Fomes connatus* (Weinm.) G. Cunn.
Oxyporus populinus (Schumacher:Fr.) Donk
- Fomes everhartii* (Ell. & Gall.) von Schrenk & Spaulding
Phellinus everhartii (Ell. & Gall.) A. Ames
- Fomes igniarius* (L. : Fr.) Kickx
Phellinus igniarius (L.: Fr.) Quélet
- Fomes igniarius* f. *tremulae* Bondartsev
Phellinus tremulae (Bondartsev) Bondartsev & Borisov
- Fomes pini* (Thore : Fr.) Karsten
Phellinus pini (Brot. : Fr.) A. Ames
- Fomes pinicola* (Swartz : Fr.) Cooke
Fomitopsis pinicola (Swartz : Fr.) Karsten
- Fusicladium saliciperdum* (Allescher & Tubeuf) Tubeuf
Pollacia saliciperda (Allescher & Tubeuf) v. Arx
- Ganoderma tsugae* Murrill
Ganoderma lucidum (Curt. : Fr.) Karsten

- Gelatinosporium abietinum* Peck
Foveostroma abietinum (Peck) DiCosmo
- Gloeosporium betulinum* Westend.
Discula betulina (Westend.) v. Arx
- Gloeosporium boreale* Ell. & Ev.
Kabatiella borealis (Ell. & Ev.) v. Arx
- Gloeosporium brunneum* Ell. & Ev.
Marssonina brunnea (Ell. & Ev.) Magnus
- Gloeosporium campestre* Pass.
Discula campestris (Pass.) v. Arx
- Gloeosporium castagnei* Desm. & Mont.
Marssonina castagnei (Desm. & Mont.) Magnus
- Gloeosporium platani* (Mont.) Oudem.
Discula platani (Peck) Sacc.
- Gloeosporium quercinum* Westend.
Discula quercina (Westend.) v. Arx
- Gloeosporium robergei* Desm.
Monostichella robergei (Desm.) Höhnelt
- Gloeosporium salicis* Westend.
Monostichella salicis (Westend.) v. Arx
- Gnomonia platani* Kleb.
Apiognomonia venata (Sacc. & Speg.) Höhnelt
- Gnomonia quercina* Kleb.
Apiognomonia quercina (Kleb.) Höhnelt
- Gnomonia venata* (Sacc. & Speg.) Kleb.
Apiognomonia venata (Sacc. & Speg.) Höhnelt
- Graphium ulmi* Schwarz
Pesotum ulmi (Schwarz) Crane & Schoknecht
- Gremmeniella abietina* (Lagerb.) Morelet
Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard
- Hypoderma lineare* (Peck) Thüm.
Bifusella linearis (Peck) Höhnelt
- Hypodermella ampla* (J. Davis) Dearn.
Davisomycella ampla (J. Davis) Darker
- Hypodermella mirabilis* Darker
Lirula mirabilis (Darker) Darker

- Hypodermella montivaga* (Petraek) Dearn.
Lophodermella montivaga Petraek
- Hypodermella nervata* Darker
Lirula nervata (Darker) Darker
- Hypodermella sulcigenum* (Rostrup) Tubeuf
Lophodermella sulcigena (Rostrup) Höhnel
- Hypoxydon pruinatum* (Klozt.) Cooker
Hypoxydon mammatum (Wahlenb.) J. Miller
- Kabatiella apocrypta* (Ell. & Ev.) v. Arx
Aureobasidium apocryptum (Ell. & Ev.) Hermandes-Nijhof
- Keithia thujina* E. Durand
Didymascella thujiana (E. Durand) Maire
- Lenzites saepiaria* (Wulfen : Fr.) Fr.
Gloeophyllum saepiaria (Wulfen : Fr.) Karsten
- Leptothyrium populi* Lib.
Marssonina populi Lib.
- Leucocytospora leucostoma* (Pers.) Höhnel
Cytospora leucostoma (Pers. : Fr.) Fr.
- Leucocytospora nivea* (Hoffm.) Kobayashi
Cytospora nivea (Hoffm.) Fr.
- Lophodermium juniperi* (Grev.) Darker
Lophodermium juniperum (Fr.) de Not.
- Macrophoma tumefaciens* Shear
Diplodia tumefaciens (Shear) Zalasky
- Naemacyclus minor* Butin
Cyclaneusma minus (Butin) DiCosmo, Peredo & Minter
- Naemacyclus niveus* (Pers. : Fr.) Fuckel ex Sacc.
Cyclaneusma niveum (Pers. : Fr.) DiCosmo, Peredo & Minter
- Oedocephalum lineatum* Bakshi
Spiniger meineckellus (A.J. Olson) Stalpers
- Oedocephalum meineckellus* (A.J. Olson) Donk
Spiniger meineckellus (A.J. Olson) Stalpers
- Ophiostoma ulmi* (Buism.) Nannf.
Ceratocystis ulmi (Buism.) C. Moreau
- Phacidium abietinellum* Dearn.
Nothophacidium abietinellum (Dearn.) J. Reid & Cain

- Phacidium balsameae* J. Davis
Sarcotrochila balsameae (J. Davis) Korf
- Phacidium infestans* Karsten var. *abietis* Dearn.
Phacidium abietis (Dearn.) J. Reid & Cain
- Physalospora miyabeana* Fukushi
Glomerella miyabeana (Fukushi) v. Arx
- Polyporus applanatus* Gray
Ganoderma applanatum (Pers.) Pat.
- Polyporus balsameus* Peck
Tyromyces balsameus (Peck) Murrill
- Polyporus cinnabarinus* Jacq. : Fr.
Pycnoporus cinnabarinus (Jacq. : Fr.) Karsten
- Polyporus circinatus* Fr.
Inonotus circinatus (Fr.) Gilbertson
- Polyporus fumosus* (Fr.) Pers.
Bjerkandera fumosa (Fr.) Karsten
- Polyporus resinosus* (Fr.) Schrader
Ischnoderma resinosum (Schrader : Fr.) Karsten
- Polyporus schweinitzii* Fr.
Phaeolus schweinitzii (Fr.) Pat.
- Polyporus tomentosus* Fr.
Inonotus tomentosus (Fr.) Gilbertson
- Polyporus tulipiferae* (Schwein.) Overh.
Irpex tulipiferae (Schwein.) Fr.
- Polyporus volvatus* Peck
Cryptoporus volvatus (Peck) Hubbard
- Poria obliqua* (Pers. : Fr.) Karsten
Inonotus obliquus (Pers. : Fr.) Pilát
- Potebniamyces balsamicola* Smerlis var. *balsamicola* Smerlis
Phacidium balsamicola (Smerlis) DiCosmo, Nag Raj & Kendrick
- Potebniamyces coniferarum* (Hahn) Smerlis
Phacidium coniferarum (Hahn) DiCosmo, Nag Raj & Kendrick
- Pullularia pullulans* (de Bary) Berkhout
Aureobasidium pullulans (de Bary) Arnaud
- Rehmiellopsis balsameae* Waterman
Delphinella balsameae (Waterman) E. Müller

- Rehmiellopsis bohemica* Bubak & Kleb.
Sydowia polyspora (Bref. & Tav.) E. Müller
- Rhizina inflata* P. Karsten
Rhizina undulata Fr.
- Scirrhia acicola* (Dearn.) Siggers
Mycosphaerella dearnessii Barr
- Scleroderris lagerbergii* Grenmen
Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard
- Sclerotinia fructicola* (Winter) Rehm
Monilinia fructicola (Winter) Honey
- Sclerotinia fuckeliana* (de Bary) Fuckel
Botryotinia fuckeliana (de Bary) Whetzel
- Septoria betulicola* Peck
Septoria betulae Pass.
- Sirococcus strobilinus* Preuss
Sirococcus conigenus (DC.) P. Cannon & Minter
- Sphaerella inaequalis* Cooke
Venturia inaequalis (Cooke) Winter
- Sphaeria cinnabarina* Tode
Nectria cinnabarina (Tode : Fr.) Fr.
- Sphaeria inquinans* (Tode) Fr.
Massaria inquinans (Tode : Fr.) de Not.
- Sphaeria macularis* Fr.
Venturia macularis (Fr.) E. Müller & v. Arx
- Steganosporium ovatum* (Pers. ex Mérat) S. Hughes
Stegonsporium pyriforme (Hoffm. : Fr.) Corda
- Stegonsporium pyriforme* (Hoffm. : Fr.) Corda
Stegonsporium acerinum Peck
- Uncinula salicis* (DC.) Winter
Uncinula adunca (Wallr. : Fr.) Lév.
- Uredo medusae* (Thüm.) Arthur
Melampsora medusae Thüm.
- Valsa fraxinina* Peck
Valsa cypri (Tul.) Tul.
- Xyloma acerinum* Pers.
Rhytisma acerinum (Pers.) Fr.

PART IV

INDEX OF COMMON NAMES WITH THEIR LATIN BINOMIALS

anthracnose

- Apiognomonina quercina* (Kleb.) Höhnell
- Apiognomonina veneta* (Sacc. & Speg.) Höhnell
- Aureobasidium apocryptum* (Ell. & Ev.) Hermanides-Nijhof
- Discula betulina* (Westend.) v. Arx
- Discula platani* (Peck) Sacc.
- Discula campestris* (Pass.) v. Arx
- Discula quercina* (Westend.) v. Arx
- Gnomonia caryae* Wolf var. *caryae*
- Gnomonia leptostyla* (Fr.) Ces. & de Not.
- Kabatiella borealis* (Ell. & Ev.) v. Arx

apiosporina witches' broom

- Apiosporina collinsii* (Schwein.) Höhnell

apple scab

- Spilocaea pomi* Fr.
- Venturia inaequalis* (Cooke) Winter

armillaria root rot

- Armillaria mellea* (Vahl : Fr.) Kummer

ash leaf spot

- Mycosphaerella effigurata* (Schwein.) House

birch leaf spot

- Cylindrosporella betulae-papyriferae* (Dearn. & Overh.) v. Arx

black canker

- Monostichella salicis* (Westend.) v. Arx

black canker of willow

- Colletotrichum crassipes* (Speg.) v. Arx
- Glomerella miyabeana* (Fukushi) v. Arx

black knot

- Apiosporina morbosa* (Schwein.) v. Arx

black root stain

- Verticicladiella procera* Kendr.

blue stain

- Cordana pauciseptata* Preuss

branch canker

- Cytospora cincta* Sacc.

branch canker

- Leucostoma cincta* (Fr.) Höhnell

brown crumbly rot

- Fomitopsis pinicola* (Swartz : Fr.) Karsten

brown cubical rot

- Gloeophyllum saepiaria* (Wulfen : Fr.) Karsten
- Phaeolus schweinitzii* (Fr.) Pat.
- Tyromyces balsameus* (Peck) Murrill

brown rot

- Coniophora puteana* (Schumacher : Fr.) Karsten
- Monilinia fructicola* (Winter) Honey

brown-spot needle blight

- Lecanosticta acicola* (Thüm.) H. Sydow
- Mycosphaerella dearnessii* Barr

caliciopsis canker

- Caliciopsis pinea* Peck

canker

- Corniculariella spina* (Berk. & Rav.) DiCosmo
- Zythia aurantiaca* (Peck) Sacc.

canker and dieback

- Discosporium populeum* (Sacc.) B. Sutton
- Dothiorella quercina* (Cooke & Ell.) Sacc.
- Hypoxylon cohaerens* Pers. : Fr.
- Scoleconectria curcurbitula* (Tode : Fr.) C. Booth
- Zythiostroma pinastri* (Karsten) Höhnelt

canker, branch dieback

- Durandiella fraxini* (Schwein. : Fr.) Seaver

cedar-apple rust

- Gymnosporangium juniperi-virginianae* Schwein.

circinatus root rot

- Inonotus circinatus* (Fr.) Gilbertson

coccomyces canker

- Coccomyces strobili* J. Reid & Cain

comandra blister rust

- Cronartium comandrae* Peck

cytospora canker

- Cytospora annulata* Ell. & Ev.
- Cytospora chrysosperma* (Pers. : Fr.) Fr.
- Cytospora kunzei* Sacc.
- Cytospora leucosperma* (Pers. : Fr.) Fr.
- Cytospora leucostoma* (Pers. : Fr.) Fr.
- Cytospora nivea* (Hoffm.) Fr.
- Cytospora pini* Desm.
- Cytospora pruinosa* (Fr.) Sacc.
- Leucostoma kunzei* (Fr.) Munk

- Leucostoma nivea* (Hoffm. : Fr.) Höhnel
Leucostoma persoonii (Nitschke) Höhnel
Valsa ambiens (Pers. : Fr.) Fr. spp. *ambiens*
Valsa ambiens (Pers. : Fr.) Fr. spp. *leucostomoides* (Peck) Spielman
Valsa cypri (Tul.) Tul. & C. Tul.
Valsa pini Alb. & Schwein. : Fr.
Valsa sordida Nitschke
- delphinella tip blight
Delphinella balsameae (Waterman) E. Müller
- dermea twig canker
Dermea balsamea (Peck) Seaver
- dieback
Valsa friesii (Duby) Fuckel
Diplodina microsperma (Johnston) B. Sutton
- diplodina leaf spot
Diplodina acerina (Pass.) B. Sutton
- diplodia twig dieback
Diplodia mutila (Fr.) Mont.
- Dutch elm disease
Ceratocystis ulmi (Buism.) C. Moreau
Pesotum ulmi (Schwarz) Crane & Schoknecht
- dwarf mistletoe
Arceuthobium americanum Nutt. ex Engel.
- eastern dwarf mistletoe
Arceuthobium pusillum Peck
- eastern gall rust
Cronartium quercuum (Berk.) Miyabe ex Shirai f. sp. *banksianae*
- elm canker
Botryodiplodia hypoderma (Sacc.) Petrak
- eutypella canker
Eutypella parasitica Davidson & Lorenz
- fir broom rust
Melampsorella caryophyllacearum Schröter
- fir-willow rust
Melampsora abietis-capraearum Tubeuf
- fire blight
Erwinia amylovora (Burr.) Winslow et al.
- fireweed rust
Pucciniastrum epilobii Otth

fomes root rot

Heterobasidium annosum (Fr.) Bref.
Spiniger meineckellus (A. Olson) Stalpers

gall rust

Gymnosporangium cornutum Arthur ex Kern

globose gall rust

Gymnosporangium globosum Farlow

gray mold

Botryotinia fuckeliana (de Bary) Whetzel
Botrytis cineria Pers. : Fr.

green stain

Chlorosplenium aeruginascens (Nyl.) Karsten

hemlock-poplar rust

Melampsora abietis-canadensis C.A. Ludwig ex Arthur

hemlock-willow rust

Melampsora epitea Thüm.

hickory leaf spot

Marssonina juglandis (Lib.) Magnus

hypoxylon canker

Hypoxylon mammatum (Wahlenb.) J. Miller

ink spot on aspen

Ciborinia whetzeli (Seaver) Seaver

Keithia needle blight

Didymascella thujina (E. Durand) Maire

larch needle cast

Hypodermella laricis Tubeuf
Meria laricis Vuill.

larch-poplar rust

Melampsora medusae Thüm.

larch-willow rust

Melampsora paradoxa Dietel & Holway

leaf blight

Septoria betulae Pass.

leaf-blister

Taphrina caerulescens (Mont. & Desm.) Tul.

leaf blotch

Guignardia aesculi (Peck) Stewart
Phyllosticta sphaeropsoides Ell. & Ev.

leaf spot

Atopospora betulina (Fr.) Petrak
Massaria inquinans (Tode : Fr.) de Not.
Monostichella robergei (Desm.) Höhnelt
Phaeoramularia maculicola (Romell & Sacc.) B. Sutton
Phyllosticta minima (Berk. & Curt.) Underw. & Earle
Phyllosticta negundinis Sacc. & Speg.
Pleuroceras populi G.E. Thompson
Septoria populicola Peck
Sphaerognomonia carpinea (Fr.) Potebnia
Tubakia dryina (Sacc.) B. Sutton
Venturia acerina Plakidas ex Barr
Didymochora betulina Höhnelt

leaf spot of ash

Asteroma fraxini (Berk. & M.A. Curtis) Petrak

leaf spot of hickory

Asteroma caryae (Peck) B. Sutton

linospora leaf blight

Linospora arctica Karsten var. *helvetica* Rehm
Linospora tetraspora G.E. Thompson

maple dieback

Cryptodiaporthe hystrix (Tode) Petrak

maple leaf spot

Cladosporium humile J. Davis

marssonina leaf spot

Marssonina brunnea (Ell. & Ev.) Magnus
Marssonina castagnei (Desm. & Mont.) Magnus
Marssonina populi (Lib.) Magnus
Marssonina rhabdospora (Ell. & Ev.) Magnus

nectria canker

Nectria cinnabarina (Tode : Fr.) Fr.
Nectria galligena Bresad.
Tubercularia vulgaris Tode : Fr.

needle blight

Cytospora pinastri Fr.
Kabatina thujae A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx)
Morelet var. *thujae*
Lophophacidium dooksii Corlett & R. Shoem.
Rhizosphaera kalkhoffii Bubák
Rhizosphaera pini (Corda) Maubl.
Sclerophoma pythiophila (Corda) Höhnelt
Sydowia polyspora (Bref. & Tav.) E. Müller

needle cast

Bifusella linearis (Peck) Höhnelt
Cyclaneusma minus (Butin) DiCosmo, Peredo & Minter

Cyclaneusma niveum (Pers. : Fr.) DiCosmo, Peredo & Minter
Isthmiella crepidiformis (Darker) Darker
Isthmiella faullii (Darker) Darker
Lirula mirabilis (Darker) Darker
Lirula nervata (Darker) Darker
Lophodermella montivaga Petrak
Lophodermella sulcigena (Rostrup) Höhnel
Lophodermium australe Dearn.
Lophodermium conigenum (Brunaud) Hilitz
Lophodermium juniperinum (Fr.) de Not.
Lophodermium nitens Darker
Lophodermium piceae (Fuckel) Höhnel
Lophodermium pinastri (Schrader : Fr.) Chev.
Lophodermium seditiosum Minter, Staley & Millar

orange stalactiform blister rust

Cronartium coleosporioides Arthur f. sp. *coleosporioides*

pine needle rust

Coleosporium asterum (Dietel) Sydow
Coleosporium pinicola (Arthur) Arthur
Coleosporium viburni Arthur

pinewood nematode

Bursaphelenchus xylophilus (Steiner & Buhner) Nickle

pink stain

Ascocoryne sarcoides (Jacq. ex Gray) J.W. Groves & D. Wilson
Coryne dubia (Pers.) Gray

plum pockets

Taphrina communis (Sadeb.) Gies.

poplar canker

Cryptodiaporthe populea (Sacc.) Butin

poplar leaf spot

Drepanopeziza populi-albae (Kleb.) Nannf.
Drepanopeziza populorum (Desm.) Höhnel

powdery mildew

Phyllactinia guttata (Wallr. : Fr.) Lév.
Podosphaera clandestina (Wallr. : Fr.) Lév.
Uncinula adunca (Wallr. : Fr.) Lév.

pullularia

Aureobasidium pullulans (de Bary) Arnaud

quince rust

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck

red band disease

- Dothistroma septospora* (Dorog.) Morelet var. *lineare* (Thyr & C. Shaw) B. Sutton
- var. *septospora*
- Mycosphaerella pini* Rostrup

red ring rot

- Phellinus pini* (Brot. : Fr.) A. Ames

rhabdocline needle cast

- Rhabdocline pseudotsugae* Sydow ssp. *pseudotsugae*

root and butt rot

- Ganoderma lucidum* (Curt. : Fr.) Karsten

root rot

- Calonectria kyotensis* Terashita
- Cylindrocladium floridanum* Sob. & C.P. Seym.

rough bark

- Diplodia tumefaciens* (Shear) Zalasky
- Keissleriella emergens* (Karsten) Bose

sap streak

- Ceratocystis coerulescens* (Münch) Bakshi
- Chalara ungeri* Sacc.

scleroderris canker

- Ascocalyx abietina* (Lagerb.) Schläpfer-Bernhard
- Brunchorstia pinea* (P. Karsten) Höhnelt

septoria canker

- Septoria musiva* Peck

septoria leaf spot

- Septoria aceris* (Lib.) Berk. & R. Br.
- Mycosphaerella populicola* G.E. Thompson
- Mycosphaerella populorum* G.E. Thompson

shoot blight

- Pollaccia elegans* Servit
- Sirococcus conigenus* (DC.) P. Cannon & Minter
- Venturia macularis* (Fr.) E. Müller & v. Arx
- Venturia populina* (Vuill.) Fabric.

shoot blight of aspen

- Pollaccia radiosa* (Lib.) Bald. & Cif.

shot-hole

- Blumeriella jaapii* (Rehm) v. Arx
- Phloesporella padi* (Lib.) v. Arx

snow blight

- Lophophacidium hyperboreum* Lagerb.
- Nothophacidium abietinellum* (Dearn.) J. Reid & Cain
- Phacidium abietis* (Dearn.) J. Reid & Cain
- Phacidium balsamicola* (Smerlis) DiCosmo, Nag Raj & Kendrick
- Phacidium coniferarum* (Hahn) DiCosmo, Nag Raj & Kendrick
- Phacidium infestans* Karsten
- Sarcotrochila balsameae* (J. Davis) Korf
- Sarcotrochila piniperda* (Rehm) Korf

speckle tar spot

- Melasmia punctata* Sacc. & Roum.
- Rhytisma punctatum* (Pers.) Fr.

spruce broom rust

- Chrysomyxa arctostaphyli* Dietel

spruce cone rust

- Chrysomyxa pirolata* (Körn.) Winter

spruce needle rust

- Chrysomyxa ledi* (Alb. & Schwein.) de Bary var. *ledi* var. *cassandrae*
(Peck & G.P. Clinton) Savile
- Chrysomyxa ledicola* (Peck) Lagerh.

sweet fern blister rust

- Cronartium comptoniae* Arthur

Swiss needle cast

- Phaeocryptopus gaeumannii* (Rohde) Petrak

tar spot

- Melasmia acerina* Lév.
- Melasmia salicina* Lév.
- Rhytisma acerinum* (Pers.) Fr.
- Rhytisma salicinum* (Pers.) Fr.

tar spot needle cast

- Davisomycella ampla* (J. Davis) Darker

tea pot fungus

- Rhizina undulata* Fr.

therrya canker

- Therrya fuckelii* (Rehm) Kujala

tip blight

- Sphaeropsis sapinea* (Fr.) Dyko & B. Sutton

tomentosus root rot

- Inonotus tomentosus* (Fr.) Gilbertson

trichoderma

- Trichoderma viride* Pers. : Fr.

trunk rot

- Cryptoporus volvatus* (Peck) Hubbard
- Ischnoderma resinosum* (Schrader : Fr.) Karsten

twig and shoot blight

- Coryneum umbonatum* Nees ex Steudel
- Pseudovalsa longipes* (Tul.) Sacc.

twig blight

- Cenangium ferruginosum* Fr. : Fr.

twig canker

- Cytosporina ludibunda* (Sacc.) Sacc.
- Foveostroma abietinum* (Peck) DiCosmo

twig dieback

- Botryosphaeria stevensii* R. Shoem.

tympanis canker

- Tympanis hypopodia* Nyl.

walnut leaf spot

- Cylindrosporium juglandis* Wolf
- Mycosphaerella juglandis* Kessler

western gall rust

- Endocronartium harknessii* (J.P. Moore) Y. Hirats.

white mold

- Microstroma juglandis* (Bereng.) Sacc.

white mottled rot

- Fomes fomentarius* (Fr.) Kickx
- Ganoderma applanatum* (Pers. ex Gray) Pat.

white pine blister rust

- Cronartium ribicola* J.C. Fischer

white rot of hardwoods

- Bjerkandera fumosa* (Fr.) Karsten

white sap rot

- Irpex tulipiferae* (Schwein.) Fr.
- Pycnoporus cinnabarinus* (Jacq. : Fr.) Karsten

white spongy rot

- Inonotus obliquus* (Pers. : Fr.) Pilát
- Oxyporus populinus* (Schumacher : Fr.) Donk
- Phellinus everhartii* (Ell. & Gall.) A. Ames

white trunk rot

- Phellinus igniarius* (L. : Fr.) Quélet
- Phellinus tremulae* (Bondartsev) Bondartsev & Borisov

willow dieback

Cryptodiaporthe salicella (Fr.) Petrak

willow scab

Pollaccia saliciperda (Allescher & Tubeuf) v. Arx

Venturia saliciperda Nüesch

witches' broom on blueberry

Pucciniastrum goeppertianum (Kühn) Kleb.

verticillium wilt

Verticillium albo-atrum Reinke & Berth.

Verticillium dahliae Kleb.

APPENDIX

ADDITIONAL FUNGI

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