

**Supplementary Table 1.** Geographical distribution of *Armillaria ostoyae* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Asia	Japan	Field maple ( <i>Acer campestre</i> ), Sycamore ( <i>Acer pseudoplatanus</i> ) Gray alder ( <i>Alnus incana</i> ) Juneberry ( <i>Amelanchier lamarckii</i> ) Birch ( <i>Betula</i> sp.) Hornbeam ( <i>Carpinus betulus</i> ) Sweet chestnut ( <i>Castanea sativa</i> ) Hazelnut ( <i>Corylus avellana</i> ) Common hawthorn ( <i>Crataegus monogyna</i> ) Beech ( <i>Fagus sylvatica</i> ) Forsythia ( <i>Forsythia</i> sp.) Alder buckthorn ( <i>Frangula alnus</i> ) Common holly ( <i>Ilex aquifolium</i> ) Austrian pine ( <i>Pinus nigra</i> ) Black cherry ( <i>Prunus serotina</i> ) Common oak ( <i>Quercus robur</i> ), Red oak ( <i>Quercus rubra</i> ), Black locust ( <i>Robinia pseudoacacia</i> ) Rowan ( <i>Sorbus aucuparia</i> ) Linden ( <i>Tilia</i> sp.)	2005	[1]
		Momi fir ( <i>Abies firma</i> ), Nikko fir ( <i>Abies homolepis</i> ), Sachalin fir ( <i>Abies sachalinensis</i> ) Japanese cypress ( <i>Chamaecyparis obtusa</i> ) Japanese larch ( <i>Larix kaempferi</i> ) Norway spruce ( <i>Picea abies</i> ), Sakhalin spruce ( <i>Picea glehnii</i> ), Dark-bark spruce ( <i>Picea jezoensis</i> ) Japanese red pine ( <i>Pinus densiflora</i> ), Japanese black pine ( <i>Pinus thunbergii</i> ) Northern Japanese hemlock ( <i>Tsuga diversifolia</i> )	1976-2007	[2]

Supplementary Table 1. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
Europe	Albania	Greek fir ( <i>Abies borisi-regis</i> )	1990-2006	[3]	
		Beech ( <i>Fagus sylvatica</i> )			
		Common juniper ( <i>Juniperus communis</i> )			
		Norway spruce ( <i>Picea abies</i> )			
		Austrian pine ( <i>Pinus nigra</i> ), Scots pine ( <i>Pinus sylvestris</i> )			
	Austria	Spruce ( <i>Picea</i> sp.)	2016	[4]	
	Czech Republic	Norway spruce ( <i>Picea abies</i> )	unknown	[5]	
		Beech ( <i>Fagus sylvatica</i> )			
	England	Norway spruce ( <i>Picea abies</i> )	Corsican pine ( <i>Pinus nigra</i> ), Scots pine ( <i>Pinus sylvestris</i> )	unknown	[6,7]
Silver birch ( <i>Betula pendula</i> )					
Lawson cypress ( <i>Chamaecyparis lawsoniana</i> )					
Common ash ( <i>Fraxinus excelsior</i> )					
European larch ( <i>Larix decidua</i> ), Japanese larch ( <i>Larix kaempferi</i> )					
Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> ), Sitka spruce ( <i>Picea sitchensis</i> )					
<i>Pinus nigra</i> subsp. <i>laricio</i> , Scots pine ( <i>Pinus sylvestris</i> ), Bhutan pine ( <i>Pinus wallichiana</i> )					
Douglas-fir ( <i>Pseudotsuga menziesii</i> )					
Common oak ( <i>Quercus robur</i> )					
Hiba ( <i>Thujopsis dolabrata</i> )					
Western hemlock-spruce ( <i>Tsuga heterophylla</i> )					

Supplementary Table 1. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
Europe	England	Buckeye/Chestnut ( <i>Aesculus</i> sp.)	2004-2007	[9]	
		Birch ( <i>Betula</i> sp.)			
Witch hazels ( <i>Hamamelis</i> sp.)					
Privet ( <i>Ligustrum</i> sp.)					
<i>Prunus</i> sp.					
<i>Rhododendron</i> sp.					
Rowan ( <i>Sorbus</i> sp.)					
Katsura ( <i>Cercidiphyllum</i> sp.)		2004-2007 2017			[10]
Sweetgum ( <i>Liquidambar</i> sp.)					
<i>Prunus</i> sp.					
France	Silver fir ( <i>Abies alba</i> ), Grand fir ( <i>Abies grandis</i> )	unknown	[8]		
	Strawberry tree ( <i>Arbutus unedo</i> )				
	Common heather ( <i>Calluna vulgaris</i> )				
	Hazelnut ( <i>Corylus avellana</i> )				
	Hawthorn ( <i>Crataegus</i> sp.)				
	Provence broom ( <i>Cytisus purgans</i> )				
	Green heather ( <i>Erica scoparia</i> )				
	Alder buckthorn ( <i>Frangula alnus</i> )				
	European larch ( <i>Larix decidua</i> )				
	Norway spruce ( <i>Picea abies</i> ), Sitka spruce ( <i>Picea sitchensis</i> )				
	Lodgepole pine ( <i>Pinus contorta</i> ), Mountain pine ( <i>Pinus mugo</i> ), <i>Pinus nigra</i> subsp. <i>laricio</i> , Maritime pine ( <i>Pinus pinaster</i> ), Monterey pine ( <i>Pinus radiata</i> ), Scots pine ( <i>Pinus sylvestris</i> ), Loblolly pine ( <i>Pinus taeda</i> ), Bhutan pine ( <i>Pinus wallichiana</i> )				
	Douglas-fir ( <i>Pseudotsuga menziesii</i> )				
	Common oak ( <i>Quercus robur</i> ), Pyrenean oak ( <i>Quercus pyrenaica</i> )				
	<i>Rubus</i> sp.				
	Scotch broom ( <i>Sarothamnus scoparius</i> )				
	Gorse ( <i>Ulex europaeus</i> )				

Supplementary Table 1. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	France	Silver fir ( <i>Abies alba</i> ), Greek Fir ( <i>Abies borisi-regis</i> )	1990	[11]
		Silver birch ( <i>Betula pendula</i> ) Cypress ( <i>Cupressus sempervirens</i> ) Beech ( <i>Fagus sylvatica</i> ) Common Juniper ( <i>Juniperus communis</i> ) Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> ) Mountain pine ( <i>Pinus mugo</i> ), Austrian pine ( <i>Pinus nigra</i> ), Maritime pine ( <i>Pinus pinaster</i> ), Stone pine ( <i>Pinus pinea</i> ), Scots pine ( <i>Pinus sylvestris</i> ) Wych elm ( <i>Ulmus glabra</i> )		
		Maritime pine ( <i>Pinus pinaster</i> ) Holm oak ( <i>Quercus ilex</i> ), Common oak ( <i>Quercus robur</i> )	unknown	[12,13]
	Greece	Silver fir ( <i>Abies alba</i> ) Beech ( <i>Fagus sylvatica</i> ) Norway spruce ( <i>Picea abies</i> ) Scots pine ( <i>Pinus sylvestris</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1991-1996	[14]
	Italy	Silver fir ( <i>Abies alba</i> ) Silver birch ( <i>Betula pendula</i> ) Sweet chestnut ( <i>Castanea sativa</i> ) Lawson cypress ( <i>Chamaecyparis lawsoniana</i> ) European larch ( <i>Larix decidua</i> ) Norway spruce ( <i>Picea abies</i> ) Swiss pine ( <i>Pinus cembra</i> ), <i>Pinus nigra</i> subsp. <i>laricio</i> , Maritime pine ( <i>Pinus pinaster</i> ), Scots pine ( <i>Pinus sylvestris</i> )	unknown	[8]

Supplementary Table 1. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Italy	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Common oak ( <i>Quercus robur</i> ) Cedar ( <i>Thuja</i> sp.)	unknown	[8]
	Netherland	Fir ( <i>Abies</i> sp.) Beech ( <i>Fagus</i> sp.) Pine ( <i>Pinus</i> sp.)	1983-1992	[15]
	Norway	Scots pine ( <i>Pinus sylvestris</i> )	unknown	[16]
	Poland	European larch ( <i>Larix decidua</i> ) Norway spruce ( <i>Picea abies</i> ) Scots pine ( <i>Pinus sylvestris</i> ) Sessile oak ( <i>Quercus petraea</i> )	1994	[17,18]
	Poland	Scots pine ( <i>Pinus sylvestris</i> )	2005-2013	[19]
	Serbia	Silver fir ( <i>Abies alba</i> ) Balkan beech ( <i>Fagus moesiaca</i> ) Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> )	2002-2007	[20]
	Spain	Austrian pine ( <i>Pinus nigra</i> ), Maritime pine ( <i>Pinus pinaster</i> ), Monterey pine ( <i>Pinus radiata</i> )	2002-2003	[21]
	Switzerland	Japanese larch ( <i>Larix kaempferi</i> ) Norway spruce ( <i>Picea abies</i> ) Scots pine ( <i>Pinus sylvestris</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1992 and 1999	[22]

Supplementary Table 1. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
Europe	Switzerland	Swiss mountain pine ( <i>Pinus mugo</i> ssp. <i>uncinata</i> )	1993-1998	[23]	
		Mountain pine ( <i>Pinus mugo</i> )	2003-2004	[24]	
		Scots pine ( <i>Pinus sylvestris</i> )	unknown	[25]	
	Turkey	Silver fir ( <i>Abies alba</i> )	Hornbeam ( <i>Carpinus betulus</i> ), Oriental hornbeam ( <i>Carpinus orientalis</i> ) Balkan Beech ( <i>Fagus moesiaca</i> ) Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> ) Poplar ( <i>Populus</i> sp.) Hungarian oak ( <i>Quercus frainetto</i> ), Sessile oak ( <i>Quercus petraea</i> ), Turkey oak ( <i>Quercus cerris</i> ) Willow ( <i>Salix</i> sp.)	2011	[26]
		Hornbeam ( <i>Carpinus betulus</i> ), Oriental hornbeam ( <i>Carpinus orientalis</i> )			
		Balkan Beech ( <i>Fagus moesiaca</i> )			
		Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> )			
Ukraine	Beech ( <i>Fagus</i> sp.)		unknown	[27]	

**Supplementary Table 2.** Geographical distribution of *Armillaria solidipes* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	British Columbia	Subalpine fir ( <i>Abies lasiocarpa</i> )	unknown	[28]*
		Douglas maple ( <i>Acer glabrum</i> var. <i>douglasii</i> ), Big leaf maple ( <i>Acer macrophyllum</i> )		
		Red alder ( <i>Alnus rubra</i> ), Green alder ( <i>Alnus sinuata</i> )		
		Paper birch ( <i>Betula papyrifera</i> )		
		Hawthorn ( <i>Crataegus</i> sp.)		
		White spruce ( <i>Picea glauca</i> ), Engelmann spruce ( <i>Picea engelmannii</i> )		
		Lodgepole pine ( <i>Pinus contorta</i> ), Western white pine ( <i>Pinus monticola</i> )		
		Quaking aspen ( <i>Populus tremuloides</i> ), Black cottonwood ( <i>Populus trichocarpa</i> )		
		Bitter cherry ( <i>Prunus emarginata</i> )		
		Douglas-fir ( <i>Pseudotsuga menziesii</i> )		
		Willow ( <i>Salix</i> sp.)		
		Western red cedar ( <i>Thuja plicata</i> )		
Western hemlock-spruce ( <i>Tsuga heterophylla</i> )				
		Subalpine fir ( <i>Abies lasiocarpa</i> )	1997	[29]*
		Engelmann spruce ( <i>Picea engelmannii</i> ), White spruce ( <i>Picea glauca</i> )		
		Lodgepole pine ( <i>Pinus contorta</i> , <i>Pinus contorta</i> var. <i>latifolia</i> )		
		Quaking aspen ( <i>Populus tremuloides</i> )		
		Douglas-fir ( <i>Pseudotsuga menziesii</i> )		
		Western larch ( <i>Larix occidentalis</i> )	unknown	[30]*
		Douglas-fir ( <i>Pseudotsuga menziesii</i> ssp. <i>glauca</i> )		
		Douglas maple ( <i>Acer glabrum</i> var. <i>douglasii</i> )	unknown	[31]*
		Sitka alder ( <i>Alnus viridis</i> ssp. <i>sinuata</i> ),		
		Paper birch ( <i>Betula papyrifera</i> )		
		Lodgepole pine ( <i>Pinus contorta</i> ), Western white pine ( <i>Pinus monticola</i> )		
		Quaking aspen ( <i>Populus tremuloides</i> )		

Supplementary Table 2. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	British Columbia	<i>Prunus</i> sp.	unknown	[31]*
		Douglas-fir ( <i>Pseudotsuga menziesii</i> )		
		Willow ( <i>Salix</i> sp.)		
		Western red cedar ( <i>Thuja plicata</i> )		
		Western hemlock-spruce ( <i>Tsuga heterophylla</i> )		
	Canada	Silver maple ( <i>Acer saccharinum</i> ), Sugar maple ( <i>Acer saccharum</i> )	1986	[32]*
		Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ), Grey birch ( <i>Betula populifolia</i> )		
		White pine ( <i>Pinus strobus</i> )		
		White oak ( <i>Quercus alba</i> )		
		Alder ( <i>Alnus</i> sp.)	unknown	[33]*
		Paper birch ( <i>Betula papyrifera</i> )		
		White spruce ( <i>Picea glauca</i> ), Black spruce ( <i>Picea mariana</i> )		
		Jack pine ( <i>Pinus banksiana</i> ), Lodgepole pine ( <i>Pinus contorta</i> ), Red pine ( <i>Pinus resinosa</i> )		
		Douglas-fir ( <i>Pseudotsuga menziesii</i> )		
		Poplar ( <i>Populus</i> sp.), Balsam poplar ( <i>Populus balsamifera</i> ), Quaking aspen ( <i>Populus tremuloides</i> )		
		Silver buffaloberry ( <i>Shepherdia argentea</i> ), Canada buffaloberry ( <i>Shepherdia canadensis</i> )		
	Colorado	White fir ( <i>Abies concolor</i> ), Subalpine fir ( <i>Abies bifolia</i> )	unknown	[34]*
		Engelmann spruce ( <i>Picea engelmannii</i> ), Blue spruce ( <i>Picea pungens</i> )		
		Ponderosa pine ( <i>Pinus ponderosa</i> )		
		Quaking aspen ( <i>Populus tremuloides</i> )		
		Douglas-fir ( <i>Pseudotsuga menziesii</i> )		
	Massachusetts	Sugar maple ( <i>Acer saccharum</i> ), Red maple ( <i>Acer rubrum</i> )	1988	[35]*
		Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> )		
		Pignut hickory ( <i>Carya glabra</i> )		
		Red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> )		



Supplementary Table 2. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Massachusetts	Ponderosa pine ( <i>Pinus ponderosa</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Gambel oak ( <i>Quercus gambelii</i> )	unknown	[36]
		Red maple ( <i>Acer rubrum</i> ) Sweet birch ( <i>Betula lenta</i> ), Paper birch ( <i>Betula papyrifera</i> ), Grey birch ( <i>Betula populifolia</i> ) American chestnut ( <i>Castanea dentata</i> ) Pitch pine ( <i>Pinus rigida</i> ), White pine ( <i>Pinus strobus</i> ) White oak ( <i>Quercus alba</i> ), Scarlet oak ( <i>Quercus coccinea</i> ), Common red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> ) Sassafras ( <i>Sassafras albidum</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	unknown	[37]
	Michigan	Apple ( <i>Malus pumila</i> ) Wild cherry ( <i>Prunus avium</i> ), Sour cherry ( <i>Prunus cerasus</i> ), Peach ( <i>Prunus persica</i> )	1985	[38]*
		<i>Prunus</i> sp.	2018	[39]*
	Minnesota	Balsam fir ( <i>Abies balsamea</i> ) Red maple ( <i>Acer rubrum</i> ) Paper birch ( <i>Betula papyrifera</i> ) Jack pine ( <i>Pinus banksiana</i> ), Red pine ( <i>Pinus resinosa</i> )	1991-1992	[40]*
		White fir ( <i>Abies concolor</i> ) Blue spruce ( <i>Picea pungens</i> ) Ponderosa pine ( <i>Pinus ponderosa</i> ), Southwestern white pine ( <i>Pinus strobiformis</i> ) Quaking aspen ( <i>Populus tremuloides</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1988	[41]*

Supplementary Table 2. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
America	New York	Balsam fir ( <i>Abies balsamea</i> )	1986-1989	[42]*	
		Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> )			
Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> )					
American beech ( <i>Fagus grandifolia</i> )					
Red spruce ( <i>Picea rubens</i> )					
Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ), Scots pine ( <i>Pinus sylvestris</i> )					
Douglas-fir ( <i>Pseudotsuga menziesii</i> )					
Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )					
Balsam fir ( <i>Abies balsamea</i> )		unknown			[43]*
Sugar maple ( <i>Acer saccharum</i> )					
Scots pine ( <i>Pinus sylvestris</i> )					
Douglas-fir ( <i>Pseudotsuga menziesii</i> )					
Black cherry ( <i>Prunus serotina</i> )					
Ontario	Balsam fir ( <i>Abies balsamea</i> )	unknown	[44]*		
	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> )				
	Yellow birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> )				
	Bitternut hickory ( <i>Carya cordiformis</i> )				
	American beech ( <i>Fagus grandifolia</i> )				
	White ash ( <i>Fraxinus americana</i> )				
	American hophornbeam ( <i>Ostrya virginiana</i> )				
	White spruce ( <i>Picea glauca</i> )				
	Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> )				
	White poplar ( <i>Populus grandidentata</i> ), Quaking aspen ( <i>Populus tremuloides</i> )				
	Black cherry ( <i>Prunus serotina</i> )				
	Red oak ( <i>Quercus rubra</i> )				
	American linden ( <i>Tilia americana</i> )				
Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )					

Supplementary Table 2. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	South Dakota	Ponderosa pine ( <i>Pinus ponderosa</i> )	1995-1996	[45]*
	Washington	Sitka spruce ( <i>Picea sitchensis</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Salmonberry ( <i>Rubus spectabilis</i> ) Scouler's willow ( <i>Salix scouleriana</i> ) Western hemlock-spruce ( <i>Tsuga heterophylla</i> )	1992-1993	[46]*
	Wisconsin	Balsam fir ( <i>Abies balsamea</i> ) Sugar maple ( <i>Acer saccharum</i> ), Red maple ( <i>Acer rubrum</i> ) Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ) Black ash ( <i>Fraxinus nigra</i> ) White spruce ( <i>Picea glauca</i> ), Sitka spruce ( <i>Picea sitchensis</i> ) Jack pine ( <i>Pinus banksiana</i> ), Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ) Quaking aspen ( <i>Populus tremuloides</i> ) Red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> ) Northern white-cedar ( <i>Thuja occidentalis</i> ) Elms ( <i>Ulmus</i> sp.)	1984-1994	[47]*
		Balsam fir ( <i>Abies balsamea</i> ) Red-twigged shadbush ( <i>Amelanchier sanguinea</i> ) Beaked hazelnut ( <i>Corylus cornuta</i> ) Poplar ( <i>Populus</i> sp.), Necklace poplar ( <i>Populus deltoides</i> ) Red oak ( <i>Quercus rubra</i> ) Wild lowbush ( <i>Vaccinium angustifolium</i> )	1992	[48]*

Supplementary Table 2. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Wisconsin	Balsam fir ( <i>Abies balsamea</i> )	unknown	[49]*
		Sugar maple ( <i>Acer saccharum</i> )		
		Paper birch ( <i>Betula papyrifera</i> )		
		White spruce ( <i>Picea glauca</i> )		
		Jack pine ( <i>Pinus banksiana</i> ), Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ) Quaking aspen ( <i>Populus tremuloides</i> )		
Europe	Norway	Norway spruce ( <i>Picea abies</i> )	unknown	[16]
	Poland	Scots pine ( <i>Pinus sylvestris</i> )	2005-2008	[19]

\*originally reported as *A. ostoyae*

**Supplementary Table 3.** Geographical distribution of *Armillaria sinapina* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Alaska	Birch ( <i>Betula</i> sp.) White spruce ( <i>Picea glauca</i> ), Willow ( <i>Salix</i> sp.) Quaking aspen ( <i>Populus tremuloides</i> ) Mountain hemlock ( <i>Tsuga mertensiana</i> )	2007	[50]
	British Columbia	<i>Picea glauca</i> × <i>Picea engelmannii</i> Rocky Mountain Lodgepole Pine ( <i>Pinus contorta</i> var. <i>latifolia</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1997	[51]
	Canada	Silver maple ( <i>Acer saccharinum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ), Grey birch ( <i>Betula populifolia</i> ) White pine ( <i>Pinus strobus</i> ) White oak ( <i>Quercus alba</i> )	1986	[32]
		Balsam fir ( <i>Abies balsamea</i> ) Paper birch ( <i>Betula papyrifera</i> ) White spruce ( <i>Picea glauca</i> ), Black spruce ( <i>Picea mariana</i> ) Jack pine ( <i>Pinus banksiana</i> ), Lodgepole pine ( <i>Pinus contorta</i> ) Poplar ( <i>Populus</i> sp.), Balsam poplar ( <i>Populus balsamifera</i> ), Quaking aspen ( <i>Populus tremuloides</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	unknown	[33]
	Colorado	Subalpine fir ( <i>Abies lasiocarpa</i> ) Western balsam bark beetle ( <i>Dryocoetes confuses</i> ) Engelmann spruce ( <i>Picea engelmannii</i> ) Quaking aspen ( <i>Populus tremuloides</i> )	2014	[52]

Supplementary Table 3. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Massachusetts	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) American beech ( <i>Fagus grandifolia</i> ) White ash ( <i>Fraxinus americana</i> )	unknown	[36]
		Sugar maple ( <i>Acer saccharum</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	unknown	[37]
	Michigan	Poplar ( <i>Populus</i> sp.)	unknown	[53]
	New York	Balsam fir ( <i>Abies balsamea</i> ) Red maple ( <i>Acer rubrum</i> ) American beech ( <i>Fagus grandifolia</i> ) White ash ( <i>Fraxinus americana</i> ) Red spruce ( <i>Picea rubens</i> ) Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ) Black cherry ( <i>Prunus serotina</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	1986-1989	[42]
	Ontario	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Yellow birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ) American beech ( <i>Fagus grandifolia</i> ) White spruce ( <i>Picea glauca</i> ) White pine ( <i>Pinus strobus</i> ) White poplar ( <i>Populus grandidentata</i> ), Quaking aspen ( <i>Populus tremuloides</i> ) Black cherry ( <i>Prunus serotina</i> ) Red oak ( <i>Quercus rubra</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	unknown	[44]

Supplementary Table 3. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Wisconsin	Balsam fir ( <i>Abies balsamea</i> )	1984-1994	[47]
		Red maple ( <i>Acer rubrum</i> )		
		Golden birch ( <i>Betula alleghaniensis</i> )		
		Black ash ( <i>Fraxinus nigra</i> )		
		Quaking aspen ( <i>Populus tremuloides</i> )		
		White oak ( <i>Quercus alba</i> )		
		Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )		
Northern white-cedar ( <i>Thuja occidentalis</i> )				
Asia	China	Khingon fir ( <i>Abies nephrolepis</i> )	1996	[54]
		Dahurian birch ( <i>Betula dahurica</i> ), Erman's birch ( <i>Betula ermanii</i> ), Japanese white birch ( <i>Betula platyphylla</i> )		
		Olga Bay larch ( <i>Larix olgensis</i> )		
		Pine ( <i>Pinus</i> sp.), Korean pine ( <i>Pinus koraiensis</i> )		
		Mongolian oak ( <i>Quercus mongolica</i> )		
		Willow ( <i>Salix</i> sp.)		

**Supplementary Table 4.** Geographical distribution of *Armillaria gemina* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Canada	Sugar maple ( <i>Acer saccharum</i> )	1987	[55]
	Massachusetts	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Golden birch ( <i>Betula alleghaniensis</i> ) American beech ( <i>Fagus grandifolia</i> ) Black cherry ( <i>Prunus serotina</i> )	unknown	[36]
		Sugar maple ( <i>Acer saccharum</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	unknown	[37]
	New York	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ) American beech ( <i>Fagus grandifolia</i> ) Scots pine ( <i>Pinus sylvestris</i> ) Black cherry ( <i>Prunus serotina</i> ) Red oak ( <i>Quercus rubra</i> )	1986-1989	[42]
		Sugar maple ( <i>Acer saccharum</i> ) American beech ( <i>Fagus grandifolia</i> ) Black cherry ( <i>Prunus serotina</i> )	unknown	[43]
	Ontario	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Yellow birch ( <i>Betula alleghaniensis</i> ) American beech ( <i>Fagus grandifolia</i> ) American hophornbeam ( <i>Ostrya virginiana</i> ) Black cherry ( <i>Prunus serotina</i> ) Red oak ( <i>Quercus rubra</i> )	unknown	[44]
	Pennsylvania	Red maple ( <i>Acer rubrum</i> )	1995–1996	[56]



Supplementary Table 5. Geographical distribution of *Armillaria borealis* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Asia	Iran	Chestnut-leaved oak ( <i>Quercus castaneifolia</i> )	1999-2001	[57]
Europe	Czech Republic	Norway spruce ( <i>Picea abies</i> )	unknown	[5]
	England	Birch ( <i>Betula</i> sp.) European larch ( <i>Larix decidua</i> ) Norway spruce ( <i>Picea abies</i> ), Sitka spruce ( <i>Picea sitchensis</i> ) Scots pine ( <i>Pinus sylvestris</i> ) Oak ( <i>Quercus</i> sp.)	1978-1982	[58]
			Silver birch ( <i>Betula pendula</i> ) Wild cherry ( <i>Prunus avium</i> )	unknown
	Finland	Silver birch ( <i>Betula pendula</i> ), Downy birch ( <i>Betula pubescens</i> ) Norway spruce ( <i>Picea abies</i> ) Rowan ( <i>Sorbus aucuparia</i> )	unknown	[59]
	Norway	Black alder ( <i>Alnus glutinosa</i> ), Gray alder ( <i>Alnus incana</i> ) Birch ( <i>Betula</i> sp.), Downy birch ( <i>Betula pubescens</i> ) Norway spruce ( <i>Picea abies</i> ) Lodgepole pine ( <i>Pinus contorta</i> ), Scots pine ( <i>Pinus sylvestris</i> ) Poplar ( <i>Populus</i> sp.) Oak ( <i>Quercus</i> sp.) Goat willow ( <i>Salix caprea</i> ) Western hemlock-spruce ( <i>Tsuga heterophylla</i> )	unknown	[16]
	Russia	Siberian fir ( <i>Abies sibirica</i> ) Silver birch ( <i>Betula pendula</i> )	2015	[60]

Supplementary Table 5. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Russia	Norway spruce ( <i>Picea abies</i> ) Siberian pine ( <i>Pinus sibirica</i> )	2015	[60]
	Switzerland	Silver fir ( <i>Abies alba</i> )	1992,	[22]
		Norway maple ( <i>Acer platanoides</i> )	1999,	
		Beech ( <i>Fagus sylvatica</i> )	2010,	
		European larch ( <i>Larix decidua</i> )	2011	
	Norway spruce ( <i>Picea abies</i> ) Mountain pine ( <i>Pinus mugo</i> )			
		Mountain pine ( <i>Pinus mugo</i> )	2003-2004	[24]
	Ukraine	Silver fir ( <i>Abies alba</i> )	unknown	[27]

**Supplementary Table 6.** Geographical distribution of *Armillaria mellea* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Africa	Kenya	Tea tree ( <i>Tea sinensis</i> )	unknown	[61]
		Tea plant ( <i>Camellia sinensis</i> ) Chinese weeping cypress ( <i>Cupressus funebris</i> )	unknown	[62]
	Sao Tome	Cacao tree ( <i>Theobroma cacao</i> )	unknown	[61]
	South Africa	Buckeye/Chestnut ( <i>Aesculus</i> sp.) Silk tree ( <i>Albizia</i> sp.) Fig trees ( <i>Ficus</i> sp.) Hortensia ( <i>Hydrangea</i> sp.) Mulberries ( <i>Morus</i> sp.) Oak ( <i>Quercus</i> sp.) Crane flower ( <i>Strelitzia</i> sp.)	1997	[63]
		Caperose ( <i>Cliffortia ferruginea</i> ) Rock ash ( <i>Ekebergia pterophylla</i> ) <i>Grevillea</i> sp. Wild peach ( <i>Kiggelaria africana</i> ) Silver tree ( <i>Leucadendron argenteum</i> ), Acacia-leaf cone-bush ( <i>Leucadendron macowanii</i> ), Peninsula cone-bush ( <i>Leucadendron strobilium</i> ) Tree pincushion ( <i>Leucospermum conocarpodendron</i> ) Satin bush ( <i>Podalyria sericea</i> ) Narrow-leaf sugarbush ( <i>Protea neriifolia</i> ), Common sugarbush ( <i>Protea repens</i> ), Sawtooth sugarbush ( <i>Protea sericea</i> ) Blossom tree ( <i>Virgilia oroboides</i> ) Willowmore cedar ( <i>Widdringtonia schwarzii</i> )	unknown	[64]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America		White oak ( <i>Quercus alba</i> ), Common red oak ( <i>Quercus rubra</i> )	2004	[65]
	British Columbia	Big leaf maple ( <i>Acer macrophyllum</i> )	1976-1977	[66]
	California	White fir ( <i>Abies concolor</i> ) Incense cedar ( <i>Libocedrus decurrens</i> ) Pine ( <i>Pinus</i> sp.), Ponderosa pine ( <i>Pinus ponderosa</i> ) Almond ( <i>Prunus dulcis</i> ) Coast live oak ( <i>Quercus agrifolia</i> ), California black oak ( <i>Quercus kelloggii</i> ), Valley oak ( <i>Quercus lobata</i> ) California laurel ( <i>Umbellularia californica</i> )	1988-1989	[67]
		Almond ( <i>Prunus dulcis</i> ), Peach ( <i>Prunus persica</i> )	unknown	[68]
		Maple ( <i>Acer</i> sp.) Silk tree ( <i>Albizia</i> sp.) White alder ( <i>Alnus rhombifolia</i> ) Mandrone ( <i>Arbutus menziesii</i> ) Birch ( <i>Betula</i> sp.) Incense cedar ( <i>Calocedrus decurrens</i> ) Camellia sp. Chestnut ( <i>Castanea</i> sp.) Buckbrush ( <i>Ceanothus</i> sp.) Deodar cedar ( <i>Cedrus deodara</i> ) Camphorwood ( <i>Cinnamomum camphora</i> ) Citrus sp. Cotoneaster sp. Monterey cypress ( <i>Cupressus macrocarpa</i> ) <i>Cycas</i> sp.	unknown	[69]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	California	Loquat ( <i>Eriobotrya japonica</i> ) Eucalyptus sp. Box leaf hebe ( <i>Hebe buxifolia</i> ) Toyon ( <i>Heteromeles arbutifolia</i> ) Holly ( <i>Ilex</i> sp.) Eastern black walnut ( <i>Juglans nigra</i> ) Juniper ( <i>Juniperus</i> sp.) Tea tree ( <i>Leptospermum</i> sp.) Wild privet ( <i>Ligustrum vulgare</i> ) Sweetgum ( <i>Liquidambar</i> sp.) <i>Magnolia</i> sp. Apple ( <i>Malus</i> sp.) Banana ( <i>Musa</i> sp.) Oleander ( <i>Nerium oleander</i> ) Boldo ( <i>Peumus boldus</i> ) Pine ( <i>Pinus</i> sp.) <i>Prunus</i> sp. Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Firethorn ( <i>Pyracantha</i> sp.) Common pear ( <i>Pyrus communis</i> ) Oak ( <i>Quercus</i> sp.), Coast live oak ( <i>Quercus agrifolia</i> ), California black oak ( <i>Quercus kelloggii</i> ), Valley oak ( <i>Quercus lobata</i> ) Buckthorns ( <i>Rhamnus</i> sp.) <i>Rhododendron</i> sp. <i>Rosa</i> sp. Willow ( <i>Salix</i> sp.) Peruvian pepper ( <i>Schinus molle</i> ) California redwood ( <i>Sequoia sempervirens</i> )	unknown	[69]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
America	California	Giant sequoia ( <i>Sequoiadendron giganteum</i> )	unknown	[69]	
		Common lilac ( <i>Syringa vulgaris</i> )			
Elms ( <i>Ulmus</i> sp.)					
California laurel ( <i>Umbellularia californica</i> )					
Sandankwa viburnum ( <i>Viburnum suspensum</i> )					
<i>Vitis</i> sp.					
California palm ( <i>Washingtonia filifera</i> )					
Mandrone ( <i>Arbutus menziesii</i> )		2001-2002			[70]
Boxleaf azara ( <i>Azara microphylla</i> )					
<i>Callistemon</i> sp., River bottlebrush ( <i>Callistemon sieberi</i> )					
<i>Camellia</i> sp., Japanese camellia ( <i>Camellia japonica</i> )					
Monterey cypress ( <i>Cupressus macrocarpa</i> )					
<i>Eucalyptus</i> sp.					
Toyon ( <i>Heteromeles arbutifolia</i> )					
Holly ( <i>Ilex</i> sp.)					
Juniper ( <i>Juniperus</i> sp.)					
Boldo ( <i>Peumus boldus</i> )					
Pine ( <i>Pinus</i> sp.), Ponderosa pine ( <i>Pinus ponderosa</i> ), Monterey pine ( <i>Pinus radiata</i> )					
<i>Pseudotsuga</i> sp.					
Oak ( <i>Quercus</i> sp.), Netleaf oak ( <i>Quercus rugosa</i> ), Interior live oak ( <i>Quercus wislizenii</i> )					
Black locust ( <i>Robinia pseudoacacia</i> )					
<i>Rhododendron</i> sp.					
Willow ( <i>Salix</i> sp.)					
Montezuma cypress ( <i>Taxodium mucronatum</i> )					
	Connecticut	Sugar maple ( <i>Acer saccharum</i> )	1976-1977	[66]	
		Black oak ( <i>Quercus velutina</i> )			

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
America	Idaho	Grand fir ( <i>Abies grandis</i> )	1976-1977	[66]	
	Massachusetts	Red maple ( <i>Acer rubrum</i> )	1976-1977	[66]	
		Lilac ( <i>Syringa</i> sp.)	unknown	[71]	
		Sweet birch ( <i>Betula lenta</i> ), Paper birch ( <i>Betula papyrifera</i> ) American chestnut ( <i>Castanea dentata</i> ) Pitch pine ( <i>Pinus rigida</i> ), White pine ( <i>Pinus strobus</i> ) Black cherry ( <i>Prunus serotina</i> ) White oak ( <i>Quercus alba</i> ), Scarlet oak ( <i>Quercus coccinea</i> ), Black oak ( <i>Quercus velutina</i> )	unknown	[36]	
		Mexico	Peach ( <i>Prunus persica</i> )	2009-2011	[72]
		Michigan	Sugar maple ( <i>Acer saccharum</i> ) Yellow birch ( <i>Betula alleghaniensis</i> )	unknown	[73]
			American beech ( <i>Fagus grandifolia</i> ) American tulip tree ( <i>Liriodendron tulipifera</i> ) Black cherry ( <i>Prunus serotina</i> ) White oak ( <i>Quercus alba</i> )	1976-1977	[66]
	Missouri		Hickory ( <i>Carya</i> sp.) Pine ( <i>Pinus</i> sp.) White oak ( <i>Quercus alba</i> ), Red oak ( <i>Quercus rubra</i> )	1993-1995	[74]
			White alder ( <i>Nyssa sylvatica</i> ) Scarlet oak ( <i>Quercus coccinea</i> ), Blackjack oak ( <i>Quercus marilandica</i> ), Black oak ( <i>Quercus velutina</i> )	1993-1997	[75]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	New York	Maple ( <i>Acer</i> sp.), Sugar maple ( <i>Acer saccharum</i> )	1976-1977	[66]
		Yellow birch ( <i>Betula alleghaniensis</i> )		
		Flowering dogwood ( <i>Cornus florida</i> )		
		Ash ( <i>Fraxinus</i> sp.)		
		American tulip tree ( <i>Liriodendron tulipifera</i> )		
	Ontario	Black cherry ( <i>Prunus serotina</i> )	1986-1989	[42]
		White oak ( <i>Quercus alba</i> )		
	Pennsylvania	Paper birch ( <i>Betula papyrifera</i> )	1976-1977	[66]
		Paper birch ( <i>Betula papyrifera</i> )	unknown	[44]
		American beech ( <i>Fagus grandifolia</i> )		
Vermont	Red oak ( <i>Quercus rubra</i> )	1995-1996	[56]	
	Red maple ( <i>Acer rubrum</i> )	unknown	[73]	
Washington	Balsam fir ( <i>Abies balsamea</i> )			
	Sugar maple ( <i>Acer saccharum</i> )			
	Birch ( <i>Betula</i> sp.), Yellow birch ( <i>Betula alleghaniensis</i> )			
	American beech ( <i>Fagus grandifolia</i> )			
	White spruce ( <i>Picea glauca</i> )			
Lodgepole pine ( <i>Pinus contorta</i> ), White pine ( <i>Pinus strobus</i> )				
White oak ( <i>Quercus alba</i> ), Red oak ( <i>Quercus rubra</i> )				
Washington	Grand fir ( <i>Abies grandis</i> )	1976-1977	[66]	
	Lodgepole pine ( <i>Pinus contorta</i> ), Ponderosa pine ( <i>Pinus ponderosa</i> )			



Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Wisconsin	Sugar maple ( <i>Acer saccharum</i> )	unknown	[73]
		Sugar maple ( <i>Acer saccharum</i> ) White oak ( <i>Quercus alba</i> ), Red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> )	1984-1994	[47]
Asia	China	<i>Keteleeria</i> sp. Sikang pine ( <i>Pinus densata</i> )	1996	[54]
	Iran	Maple ( <i>Acer</i> sp.) Oriental beech ( <i>Fagus orientalis</i> ) Persian ironwood ( <i>Parrotia persica</i> ) Oriental plane ( <i>Platanus orientalis</i> ) <i>Prunus</i> sp., Almond ( <i>Prunus dulcis</i> )	1999-2001	[57]
		Bitter orange ( <i>Citrus aurantium</i> ) Oriental beech ( <i>Fagus orientalis</i> ) Persian walnut ( <i>Juglans regia</i> ) Persian ironwood ( <i>Parrotia persica</i> ) Oriental plane ( <i>Platanus orientalis</i> ) Ansu apricot ( <i>Prunus armeniaca</i> ), Almond ( <i>Prunus dulcis</i> ) Common pear ( <i>Pyrus communis</i> )	2006-2008	[76]
	Japan	Painted maple ( <i>Acer pictum</i> ssp. <i>mono</i> ) Japanese ash ( <i>Fraxinus lanuginosa</i> ) Mongolian oak ( <i>Quercus mongolica</i> var. <i>grosseserrata</i> )	1993-1994	[77]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Asia	Japan	Bitter orange ( <i>Citrus aurantium</i> ) Japanese cypress ( <i>Chamaecyparis obtusa</i> ) Japanese red pine ( <i>Pinus densiflora</i> ), Japanese black pine ( <i>Pinus thunbergii</i> )	unknown	[78]
		Japanese horse-chestnut ( <i>Aesculus turbinata</i> ) Katsura ( <i>Cercidiphyllum japonicum</i> ) Japanese cypress ( <i>Chamaecyparis obtusa</i> ) Japanese red pine ( <i>Pinus densiflora</i> ) Japanese pear ( <i>Pyrus pyrifolia</i> ) Sawtooth oak ( <i>Quercus acutissima</i> ), Jolcham oak ( <i>Quercus serrata</i> )	unknown	[79]
		Japanese cypress ( <i>Chamaecyparis obtusa</i> ) Japanese black pine ( <i>Pinus thunbergii</i> )	1976-2007	[2]
Europe	Albania	Silver fir ( <i>Abies alba</i> ), Greek fir ( <i>Abies borisi-regis</i> ), Sycamore ( <i>Acer pseudoplatanus</i> ) Black alder ( <i>Alnus glutinosa</i> ), Gray alder ( <i>Alnus incana</i> ), Green alder ( <i>Alnus viridis</i> ) Silver birch ( <i>Betula pendula</i> ) Hornbeam ( <i>Carpinus betulus</i> ) Sweet chestnut ( <i>Castanea sativa</i> ) Rangpur ( <i>Citrus limonia</i> ), Sweet orange ( <i>Citrus sinensis</i> ) Hazelnut ( <i>Corylus avellana</i> ) Common hawthorn ( <i>Crataegus monogyna</i> ) Cypress ( <i>Cupressus sempervirens</i> ) Beech ( <i>Fagus sylvatica</i> ) Common fig ( <i>Ficus carica</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Persian walnut ( <i>Juglans regia</i> )	1990-2006	[3]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe		Common juniper ( <i>Juniperus communis</i> )	1990-2006	[3]
		Apple ( <i>Malus</i> sp.), European crabapple ( <i>Malus sylvestris</i> )		
		White mulberry ( <i>Morus alba</i> ), Black mulberry ( <i>Morus nigra</i> )		
		Oleander ( <i>Nerium oleander</i> )		
		Olive ( <i>Olea</i> sp.), European olive ( <i>Olea europaea</i> )		
		Hop hornbeam ( <i>Ostrya carpinifolia</i> )		
		Aleppo pine ( <i>Pinus halepensis</i> ), Austrian pine ( <i>Pinus nigra</i> )		
		Oriental plane ( <i>Platanus orientalis</i> )		
		<i>Prunus</i> sp., Wild cherry ( <i>Prunus avium</i> ), Common plum ( <i>Prunus domestica</i> ), Almond ( <i>Prunus dulcis</i> ), Peach ( <i>Prunus persica</i> ), Black cherry ( <i>Prunus serotina</i> )		
		Pear ( <i>Pyrus</i> sp.), Common pear ( <i>Pyrus communis</i> )		
		Austrian oak ( <i>Quercus cerris</i> ), Hungarian oak ( <i>Quercus frainetto</i> ), Holm oak ( <i>Quercus ilex</i> ), Sessile oak ( <i>Quercus petraea</i> ), Pubescent oak ( <i>Quercus pubescens</i> ), Common oak ( <i>Quercus robur</i> ), Red oak ( <i>Quercus rubra</i> )		
		Black locust ( <i>Robinia pseudoacacia</i> )		
		Common willow ( <i>Salix alba</i> ), Green weeping willow ( <i>Salix babylonica</i> )		
		Northern white-cedar ( <i>Thuja occidentalis</i> ), Chinese thuja ( <i>Thuja orientalis</i> )		
		Silver lime ( <i>Tilia tomentosa</i> )		
	Wych elm ( <i>Ulmus glabra</i> ), English elm ( <i>Ulmus procera</i> )			
	<i>Vitis</i> sp., Common grape vine ( <i>Vitis vinifera</i> )			
	Austria	Silver fir ( <i>Abies alba</i> ), Grand fir ( <i>Abies grandis</i> )	unknown	[80]
		Norway spruce ( <i>Picea abies</i> )		
		Douglas fir ( <i>Pseudotsuga menziesii</i> )		
	Bulgaria	Austrian oak ( <i>Quercus cerris</i> ), Hungarian oak ( <i>Quercus frainetto</i> ), Sessile oak ( <i>Quercus petraea</i> ), Red oak ( <i>Quercus rubra</i> )	1991-1999	[81]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Czech Republic	Black alder ( <i>Alnus glutinosa</i> )	unknown	[5]
	England	Norway spruce ( <i>Picea abies</i> ) Scots pine ( <i>Pinus sylvestris</i> ), Corsican pine ( <i>Pinus nigra</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	unknown	[6,7]
	England	Field maple ( <i>Acer campestre</i> ), Big leaf maple ( <i>Acer macrophyllum</i> ), Italian maple ( <i>Acer opalus</i> ), Sycamore ( <i>Acer pseudoplatanus</i> ), Silver maple ( <i>Acer saccharinum</i> ), Horse chestnut ( <i>Aesculus hippocastanum</i> ) Black alder ( <i>Alnus glutinosa</i> ), Gray alder ( <i>Alnus incana</i> ) Alternate-leaved butterfly-bush ( <i>Buddleja alternifolia</i> ) Incense cedar ( <i>Calocedrus decurrens</i> ) Atlas cedar ( <i>Cedrus atlantica</i> ), Lebanon cedar ( <i>Cedrus libani</i> ) Lawson cypress ( <i>Chamaecyparis lawsoniana</i> ) Pacific dogwood ( <i>Cornus nuttallii</i> ) Rockspray cotoneaster ( <i>Cotoneaster horizontalis</i> ), Late cotoneaster ( <i>Cotoneaster lacteus</i> ) Common hawthorn ( <i>Crataegus monogyna</i> ) Leyland cypress ( <i>Cupressocyparis leylandii</i> ) Smooth Arizona Cypress ( <i>Cupressus glabra</i> ) Japanese cedar ( <i>Cryptomeria japonica</i> ) <i>Deutzia</i> sp. Weeping forsythia ( <i>Forsythia suspensa</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Common holly ( <i>Ilex aquifolium</i> ) Persian walnut ( <i>Juglans regia</i> ) Japanese marigold bush ( <i>Kerria japonica</i> ) Beauty bush ( <i>Kolkwitzia amabilis</i> ) Common laburnum ( <i>Laburnum anagyroides</i> ) European larch ( <i>Larix decidua</i> )	unknown	[8]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	England	Wild privet ( <i>Ligustrum vulgare</i> ) American tulip tree ( <i>Liriodendron tulipifera</i> ) Oregon grape-holly ( <i>Mahonia japonica</i> ) Apple ( <i>Malus pumila</i> ), European crabapple ( <i>Malus sylvestris</i> ) Black mulberry ( <i>Morus nigra</i> ) European olive ( <i>Olea europaea</i> ) English dogwood ( <i>Philadelphus coronarius</i> ) <i>Pinus nigra</i> subsp. <i>laricio</i> , Maritime pine ( <i>Pinus pinaster</i> ), Stone pine ( <i>Pinus pinea</i> ), Scots pine ( <i>Pinus sylvestris</i> ), Bhutan pine ( <i>Pinus wallichiana</i> ) London plane ( <i>Platanus acerifolia</i> ) Poplar ( <i>Populus</i> sp.) <i>Prunus</i> sp., Wild cherry ( <i>Prunus avium</i> ), Cherry plum ( <i>Prunus cerasifera</i> , <i>Prunus cerasifera</i> var. <i>pissardii</i> ), Peach ( <i>Prunus persica</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Firethorn ( <i>Pyracantha</i> sp.) Common pear ( <i>Pyrus communis</i> ) Common oak ( <i>Quercus robur</i> ) Flowering currant ( <i>Ribes sanguineum</i> ) <i>Rosa</i> sp Willow ( <i>Salix</i> sp.), Common willow ( <i>Salix alba</i> ), Coral bark willow ( <i>Salix alba</i> ssp. <i>vitellina</i> ), Green weeping willow ( <i>Salix babylonica</i> ), Goat willow ( <i>Salix caprea</i> ) Giant sequoia ( <i>Sequoiadendron giganteum</i> ) <i>Sorbus</i> sp., Rowan ( <i>Sorbus aucuparia</i> ) Common lilac ( <i>Syringa vulgaris</i> ) Western red cedar ( <i>Thuja plicata</i> ) Linden ( <i>Tilia</i> sp.) Western hemlock-spruce ( <i>Tsuga heterophylla</i> ) Elm ( <i>Ulmus</i> sp.) <i>Viburnum</i> sp., Viburnum ( <i>Viburnum farreri</i> ), Laurustinus ( <i>Viburnum tinus</i> )	unknown	[8]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	England	Birch ( <i>Betula</i> sp.)	1997	[82]
		<i>Rosa</i> sp.		
		Lilac ( <i>Syringa</i> sp.)		
		Privet ( <i>Ligustrum</i> sp.)	unknown	[83]
		Buckeye/Chestnut ( <i>Aesculus</i> sp.)	2004-2007	[9]
		<i>Akebia</i> ( <i>Akebia</i> sp.)		
		Birch ( <i>Betula</i> sp.)		
		Silk cotton tree ( <i>Bombax</i> sp.)		
		<i>Brachyglottis</i> sp.		
		Palm ( <i>Chamaerops</i> sp.)		
		<i>Cordyline</i> sp.		
		Smoketree ( <i>Cotinus</i> sp.)		
		Pearl bush ( <i>Exochorda</i> sp.)		
		Witch hazels ( <i>Hamamelis</i> sp.)		
Privet ( <i>Ligustrum</i> sp.)				
<i>Linnaea</i> sp.				
Mercuries ( <i>Mercurialis</i> sp.)				
<i>Miossa</i> sp.				
Beardtongues ( <i>Penstemon</i> sp.)				
<i>Prunus</i> sp.				
<i>Rhododendron</i> sp.				
<i>Skimmia</i> sp.				
Rowan ( <i>Sorbus</i> sp.)				
<i>Stachyurus</i> sp.				

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe		Boxwood ( <i>Buxus</i> sp.)	2004-2007	[10]
		Leyland cypress ( <i>Cupressocyparis leylandii</i> )	2017	
		Spindle ( <i>Euonymus</i> sp.)		
		Privet ( <i>Ligustrum</i> sp.), Wild privet ( <i>Ligustrum vulgare</i> )		
		<i>Prunus</i> sp., Ansu apricot ( <i>Prunus armeniaca</i> ), Common plum ( <i>Prunus domestica</i> ), Damson plum ( <i>Prunus institia</i> ), Cherry laurel ( <i>Prunus laurcerasus</i> ), Portugal laurel ( <i>Prunus lusitanica</i> )		
		<i>Rhododendron</i> sp.		
		Sweet box ( <i>Sarcococca</i> sp.)		
		<i>Viburnum</i> sp.		
	France	Peach ( <i>Prunus persica</i> )	1969	[84]
		Common oak ( <i>Quercus robur</i> )	1975	[85]
		Beech ( <i>Fagus</i> sp.)	1990	[11]
		Wattle ( <i>Acacia</i> sp.), Silver wattle ( <i>Acacia dealbata</i> )	unknown	[8]
		Norway maple ( <i>Acer platanoides</i> ), Sycamore ( <i>Acer pseudoplatanus</i> )		
		Golden kiwifruit ( <i>Actinidia chinensis</i> )		
		Horse chestnut ( <i>Aesculus hippocastanum</i> )		
		Giant cane ( <i>Arundo donax</i> )		
		Silver birch ( <i>Betula pendula</i> )		
		Atlas cedar ( <i>Cedrus atlantica</i> ), Deodar cedar ( <i>Cedrus deodara</i> )		
		European nettle tree ( <i>Celtis australis</i> )		
		Carob ( <i>Ceratonia siliqua</i> )		
		Lawson cypress ( <i>Chamaecyparis lawsoniana</i> )		
		Mums ( <i>Chrysanthemum</i> sp.)		
		Grey-leaved cistus ( <i>Cistus albidus</i> )		

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	France	Bitter orange ( <i>Citrus aurantium</i> ) Hazelnut ( <i>Corylus avellana</i> ) Rockspray cotoneaster ( <i>Cotoneaster horizontalis</i> ) Leyland cypress ( <i>Cupressocyparis leylandii</i> ) Arizona cypress ( <i>Cupressus arizonica</i> ), Smooth Arizona Cypress ( <i>Cupressus glabra</i> ), Cypress ( <i>Cupressus sempervirens</i> ) Quince ( <i>Cydonia vulgaris</i> ) Artichoke ( <i>Cynara scolymus</i> ) Loquat ( <i>Eriobotrya japonica</i> ) Eucalyptus sp., Mountain gum ( <i>Eucalyptus dalrympleana</i> ) Beech ( <i>Fagus sylvatica</i> ) Common fig ( <i>Ficus carica</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Common ivy ( <i>Hedera helix</i> ) Persian walnut ( <i>Juglans regia</i> ) European larch ( <i>Larix decidua</i> ) Wild privet ( <i>Ligustrum vulgare</i> ) American tulip tree ( <i>Liriodendron tulipifera</i> ) Apple ( <i>Malus pumila</i> ) European olive ( <i>Olea europaea</i> ) Virginia creeper ( <i>Parthenocissus quinquefolia</i> ) London plane ( <i>Platanus acerifolia</i> ) Ansu apricot ( <i>Prunus armeniaca</i> ), Wild cherry ( <i>Prunus avium</i> ), Cherry plum ( <i>Prunus cerasifera</i> ), Common plum ( <i>Prunus domestica</i> ), Almond ( <i>Prunus dulcis</i> ), Mahaleb cherry ( <i>Prunus mahaleb</i> ), Peach ( <i>Prunus persica</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Firethorn ( <i>Pyracantha</i> sp.) Common pear ( <i>Pyrus communis</i> )	unknown	[8]



Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	France	Sessile oak ( <i>Quercus petraea</i> ), Common oak ( <i>Quercus robur</i> ), Red oak ( <i>Quercus rubra</i> ), Cork oak ( <i>Quercus suber</i> ) Blackcurrant ( <i>Ribes nigrum</i> ) <i>Rosa</i> sp. Willow ( <i>Salix</i> sp.) Chequers ( <i>Sorbus torminalis</i> ) Crane flower ( <i>Strelitzia reginae</i> ) Cedar ( <i>Thuja</i> sp.), Northern white-cedar ( <i>Thuja occidentalis</i> ), Linden ( <i>Tilia</i> sp.) Laurustinus ( <i>Viburnum tinus</i> ) <i>Vitis</i> sp., Common grape vine ( <i>Vitis vinifera</i> )	unknown	[8]
	Germany	Sycamore ( <i>Acer pseudoplatanus</i> )	1997	[86]
	Greece	Greek fir ( <i>Abies borisi-regis</i> ), Bulgarian fir ( <i>Abies cephalonica</i> ) Golden kiwifruit ( <i>Actinidia chinensis</i> ) Hornbeam ( <i>Carpinus betulus</i> ) Sweet chestnut ( <i>Castanea sativa</i> ) Atlas cedar ( <i>Cedrus atlantica</i> ) Pink rock-rose ( <i>Cistus creticus</i> ) Lemon ( <i>Citrus limon</i> ) Hazelnut ( <i>Corylus avellana</i> ) Balkan beech ( <i>Fagus moesiaca</i> ), Beech ( <i>Fagus sylvatica</i> ) Common ash ( <i>Fraxinus excelsior</i> ) French broom ( <i>Genista monspessulana</i> ) Persian walnut ( <i>Juglans regia</i> ) Common juniper ( <i>Juniperus communis</i> ) European crabapple ( <i>Malus sylvestris</i> ) White mulberry ( <i>Morus alba</i> )	1991-1996	[14]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Greece	Oleander ( <i>Nerium oleander</i> ) European olive ( <i>Olea europaea</i> ) Aleppo pine ( <i>Pinus halepensis</i> ), Austrian pine ( <i>Pinus nigra</i> ) Oriental plane ( <i>Platanus orientalis</i> ) Wild cherry ( <i>Prunus avium</i> ), Common plum ( <i>Prunus domestica</i> ), Almond ( <i>Prunus dulcis</i> ), Peach ( <i>Prunus persica</i> ) Common pear ( <i>Pyrus communis</i> ) Hungarian oak ( <i>Quercus frainetto</i> ) Chinese thuja ( <i>Thuja orientalis</i> ) Laurustinus ( <i>Viburnum tinus</i> ) Common grape vine ( <i>Vitis vinifera</i> )	1991-1996	[14]
	Hungary	Oak ( <i>Quercus</i> sp.)	2016	[4]
	Italy	Silver fir ( <i>Abies alba</i> ) Field maple ( <i>Acer campestre</i> ) Golden kiwifruit ( <i>Actinidia chinensis</i> ) Horse chestnut ( <i>Aesculus hippocastanum</i> ) Gray alder ( <i>Alnus incana</i> ) Hornbeam ( <i>Carpinus betulus</i> ) Sweet chestnut ( <i>Castanea sativa</i> ) Atlas cedar ( <i>Cedrus atlantica</i> ) European nettle tree ( <i>Celtis australis</i> ) Lawson cypress ( <i>Chamaecyparis lawsoniana</i> ) Bitter orange ( <i>Citrus aurantium</i> ), Lime ( <i>Citrus limonum</i> ) Hazelnut ( <i>Corylus avellana</i> ) Arizona cypress ( <i>Cupressus arizonica</i> ), Monterey cypress ( <i>Cupressus macrocarpa</i> ), Cypress ( <i>Cupressus sempervirens</i> )	unknown	[8]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Italy	<i>Eucalyptus</i> sp. Beech ( <i>Fagus sylvatica</i> ) Common fig ( <i>Ficus carica</i> ) Common ash ( <i>Fraxinus excelsior</i> ), South European flowering ash ( <i>Fraxinus ornus</i> ) Bridal broom ( <i>Genista monosperma</i> ) Persian walnut ( <i>Juglans regia</i> ) European larch ( <i>Larix decidua</i> ) Bay tree ( <i>Laurus nobilis</i> ) Apple ( <i>Malus pumila</i> ) White mulberry ( <i>Morus alba</i> ), Black mulberry ( <i>Morus nigra</i> ) European olive ( <i>Olea europaea</i> ) Prickly pear ( <i>Opuntia ficus-indica</i> ) Hop hornbeam ( <i>Ostrya carpinifolia</i> ) Norway spruce ( <i>Picea abies</i> ) Aleppo pine ( <i>Pinus halepensis</i> ), <i>Pinus nigra</i> subsp. <i>laricio</i> , Maritime pine ( <i>Pinus pinaster</i> ), Stone pine ( <i>Pinus pinea</i> ) London plane ( <i>Platanus acerifolia</i> ) Poplar ( <i>Populus</i> sp.) Ansu apricot ( <i>Prunus armeniaca</i> ), Wild cherry ( <i>Prunus avium</i> ), Cherry plum ( <i>Prunus cerasifera</i> ), Common plum ( <i>Prunus domestica</i> ), Almond ( <i>Prunus dulcis</i> ), Peach ( <i>Prunus persica</i> ) Douglas fir ( <i>Pseudotsuga menziesii</i> ) Common pear ( <i>Pyrus communis</i> ) Turkey oak ( <i>Quercus cerris</i> ), Hungarian oak ( <i>Quercus frainetto</i> ), Holm oak ( <i>Quercus ilex</i> ), Sessile oak ( <i>Quercus petraea</i> ), Common oak ( <i>Quercus robur</i> ), Cork oak ( <i>Quercus suber</i> ) Black locust ( <i>Robinia pseudoacacia</i> ) <i>Rosa</i> sp. Willow ( <i>Salix</i> sp.) European elder ( <i>Sambucus nigra</i> )	unknown	[8]

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Italy	Peruvian pepper ( <i>Schinus molle</i> )	unknown	[8]
		Spanish broom ( <i>Spartium junceum</i> )		
		Linden ( <i>Tilia</i> sp.)		
		Elms ( <i>Ulmus</i> sp.)		
		<i>Vitis</i> sp., Common grape vine ( <i>Vitis vinifera</i> )		
		House holly-fern ( <i>Cyrtomium falcatum</i> )	1999	[87]
		Common grape vine ( <i>Vitis vinifera</i> )	2000-2004	[88]
		Pineapple palm ( <i>Phoenix canariensis</i> )	2006	[89]
	Lithuania	Small-leaved lime ( <i>Tilia cordata</i> )	2005-2011	[90]
	Netherlands	Field maple ( <i>Acer campestre</i> )	1983-1992	[15]
Gray alder ( <i>Alnus incana</i> )				
Birch ( <i>Betula</i> sp.)				
Hazelnut ( <i>Corylus avellana</i> )				
Beech ( <i>Fagus sylvatica</i> )				
Common ash ( <i>Fraxinus excelsior</i> )				
Apple ( <i>Malus</i> sp.)				
Silver poplar ( <i>Populus alba</i> ), Aspen ( <i>Populus tremula</i> )				
Wild cherry ( <i>Prunus avium</i> )				
Common pear ( <i>Pyrus communis</i> )				
Common oak ( <i>Quercus robur</i> )				
Black locust ( <i>Robinia pseudoacacia</i> )				
Common willow ( <i>Salix alba</i> ), Common sallow ( <i>Salix cinerea</i> )				
Linden ( <i>Tilia</i> sp.)				

Supplementary Table 6. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Portugal	Cork oak ( <i>Quercus suber</i> )	unknown	[91]
	Serbia	Hornbeam ( <i>Carpinus betulus</i> ) Sessile oak ( <i>Quercus petraea</i> )	unknown	[92]
		Hornbeam ( <i>Carpinus betulus</i> ), Oriental hornbeam ( <i>Carpinus orientalis</i> ) Balkan Beech ( <i>Fagus moesiaca</i> ) Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> ) Pine ( <i>Pinus</i> sp.) Hungarian oak ( <i>Quercus frainetto</i> ), Sessile oak ( <i>Quercus petraea</i> ), Turkey oak ( <i>Quercus cerris</i> )	2002-2007	[20]
	Spain	Common grape vine ( <i>Vitis vinifera</i> )	1995-1997	[93]
		Common grape vine ( <i>Vitis vinifera</i> )	unknown	[94]
		Scots pine ( <i>Pinus sylvestris</i> )	unknown	[95]
		Lawson cypress ( <i>Chamaecyparis lawsoniana</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Oak ( <i>Quercus</i> sp.), Pyrenean oak ( <i>Quercus pyrenaica</i> ) Monterey pine ( <i>Pinus radiata</i> )	unknown	[96]

**Supplementary Table 7.** Geographical distribution of *Armillaria gallica* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Arizona	Ponderosa pine ( <i>Pinus ponderosa</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Gambel oak ( <i>Quercus gambelii</i> )	2010	[97]
	Arkansas	White oak ( <i>Quercus alba</i> ), Common red oak ( <i>Quercus rubra</i> )	2004	[65]
	California	White fir ( <i>Abies concolor</i> ), Red fir ( <i>Abies magnifica</i> ) Big leaf maple ( <i>Acer macrophyllum</i> ) California buckeye ( <i>Aesculus californica</i> ) Red alder ( <i>Alnus rubra</i> ) Mandrone ( <i>Arbutus menziesii</i> ) Manzanita ( <i>Arctostaphylos</i> sp.) Incense cedar ( <i>Calocedrus decurrens</i> ) Dogwoods ( <i>Cornus</i> sp.) Tanoak ( <i>Lithocarpus densiflorus</i> ) Sugar pine ( <i>Pinus lambertiana</i> ), Ponderosa pine ( <i>Pinus ponderosa</i> ) Bitter-berry ( <i>Prunus virginiana</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Coast live oak ( <i>Quercus agrifolia</i> ), California black oak ( <i>Quercus kelogii</i> ), Valley oak ( <i>Quercus lobata</i> ) California redwood ( <i>Sequoia sempervirens</i> ) California laurel ( <i>Umbellularia californica</i> )	unknown	[69]
	Georgia	<i>Rhododendron</i> sp. Red oak ( <i>Quercus rubra</i> )	2017	[98]
	Hawaii	Monterey pine ( <i>Pinus radiata</i> ), Loblolly pine ( <i>Pinus taeda</i> ) Methley plum ( <i>Prunus cerasifera</i> × <i>Prunus salicina</i> ) Māmane ( <i>Sophora chrysophylla</i> )	2005	[99]

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Hawaii	Koa ( <i>Acacia koa</i> ) 'Ōhi'a lehua ( <i>Metrosideros polymorpha</i> )	2015	[100]
	Massachusetts	Red maple ( <i>Acer rubrum</i> ) White ash ( <i>Fraxinus americana</i> ) Spruce ( <i>Picea</i> sp.) Common lilac ( <i>Syringa vulgaris</i> )	1988	[35]
	Massachusetts	Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Yellow birch ( <i>Betula alleghaniensis</i> ), Sweet birch ( <i>Betula lenta</i> ), Paper birch ( <i>Betula papyrifera</i> ) Shagbark hickory ( <i>Carya ovata</i> ) American beech ( <i>Fagus grandifolia</i> ) White ash ( <i>Fraxinus americana</i> ) White pine ( <i>Pinus strobus</i> ) Quaking aspen ( <i>Populus tremuloides</i> ) White oak ( <i>Quercus alba</i> ), Chestnut oak ( <i>Quercus prinus</i> ), Common red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> ) American linden ( <i>Tilia americana</i> )	unknown	[36]
		Red maple ( <i>Acer rubrum</i> ) Yellow birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ) American beech ( <i>Fagus grandifolia</i> ) White ash ( <i>Fraxinus americana</i> ) Pitch pine ( <i>Pinus rigida</i> ), White pine ( <i>Pinus strobus</i> ) White poplar ( <i>Populus grandidentata</i> ) Black cherry ( <i>Prunus serotina</i> ) White oak ( <i>Quercus alba</i> ), Swamp white oak ( <i>Quercus bicolor</i> ), Common red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> )	2010	[37]

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Mexico	Sacred fir ( <i>Abies religiosa</i> )	2007	[101]
		Alder ( <i>Alnus</i> sp., <i>Alnus acuminata</i> )		
		Texas madrone ( <i>Arbutus xalapensis</i> )		
		American hornbeam ( <i>Carpinus caroliniana</i> )		
		Loquat ( <i>Eriobotrya japonica</i> )		
		American sweetgum ( <i>Liquidambar styraciflua</i> )		
		Johnnyberry ( <i>Miconia mexicana</i> )		
		Mexican plane ( <i>Platanus mexicana</i> )		
		Groundsel ( <i>Roldana</i> sp.)		
		<i>Senecio</i> sp.		
Xalapa oak ( <i>Quercus xalapensis</i> )				
		Orchard apple ( <i>Malus domestica</i> )	2019	[102]
		Pino blanco ( <i>Pinus devoniana</i> ), Smooth-bark Mexican pine ( <i>Pinus pseudostrabus</i> ), Teocote ( <i>Pinus teocote</i> )		
		<i>Quercus jonesii</i> , American turkey oak ( <i>Quercus laevis</i> )		
	Missouri	Hickory ( <i>Carya</i> sp.)	1993-1995	[74]
		Pine ( <i>Pinus</i> sp.)		
		White oak ( <i>Quercus alba</i> ), Red oak ( <i>Quercus rubra</i> )		
		White alder ( <i>Nyssa sylvatica</i> )	1993-1997	[75]
		Scarlet oak ( <i>Quercus coccinea</i> ), Blackjack oak ( <i>Quercus marilandica</i> ), Black oak ( <i>Quercus velutina</i> )		
	Nebraska	Paper birch ( <i>Betula papyrifera</i> )	unknown	[103]
		White ash ( <i>Fraxinus americana</i> )		
		Ponderosa pine ( <i>Pinus ponderosa</i> )		
		Necklace poplar ( <i>Populus deltoides</i> )		
		Bur oak ( <i>Quercus macrocarpa</i> )		
		American linden ( <i>Tilia americana</i> )		
		American elm ( <i>Ulmus americana</i> )		



Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	New York	Balsam fir ( <i>Abies balsamea</i> )	1986-1989	[42]
		Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> )		
		Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> )		
American beech ( <i>Fagus grandifolia</i> )				
White ash ( <i>Fraxinus americana</i> )				
Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ), Scots pine ( <i>Pinus sylvestris</i> )				
Black cherry ( <i>Prunus serotina</i> )				
White oak ( <i>Quercus alba</i> ), Red oak ( <i>Quercus rubra</i> )				
American linden ( <i>Tilia americana</i> )				
Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )				
		Sugar maple ( <i>Acer saccharum</i> )	unknown	[43]
		American beech ( <i>Fagus grandifolia</i> )		
		Black cherry ( <i>Prunus serotina</i> )		
	Ontario	Red maple ( <i>Acer rubrum</i> ), Silver maple ( <i>Acer saccharinum</i> ), Sugar maple ( <i>Acer saccharum</i> )	unknown	[44]
		Yellow birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> )		
		American hornbeam ( <i>Carpinus caroliniana</i> )		
		Bitternut hickory ( <i>Carya cordiformis</i> ), Shagbark hickory ( <i>Carya ovata</i> )		
		American beech ( <i>Fagus grandifolia</i> )		
		White ash ( <i>Fraxinus americana</i> ), Green ash ( <i>Fraxinus pennsylvanica</i> )		
		Butternut ( <i>Juglans cinerea</i> ), Eastern black walnut ( <i>Juglans nigra</i> )		
		Tulip tree ( <i>Liriodendron tulipifera</i> )		
		American hophornbeam ( <i>Ostrya virginiana</i> )		
		Jack pine ( <i>Pinus banksiana</i> ), Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> )		
		White poplar ( <i>Populus grandidentata</i> ), Quaking aspen ( <i>Populus tremuloides</i> )		
		Black cherry ( <i>Prunus serotina</i> )		
		White oak ( <i>Quercus alba</i> ), Bur oak ( <i>Quercus macrocarpa</i> ), Common red oak ( <i>Quercus rubra</i> )		

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Ontario	Sassafras ( <i>Sassafras albidum</i> ) American linden ( <i>Tilia americana</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	unknown	[44]
	Washington	Scouler's willow ( <i>Salix scouleriana</i> )	1992-1993	[46]
	Wisconsin	Balsam fir ( <i>Abies balsamea</i> ) Red maple ( <i>Acer rubrum</i> ), Silver maple ( <i>Acer saccharinum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Paper birch ( <i>Betula papyrifera</i> ) Shagbark hickory ( <i>Carya ovata</i> ) Green ash ( <i>Fagus pensylvanica</i> ) Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ) Quaking aspen ( <i>Populus tremuloides</i> ) Black cherry ( <i>Prunus serotina</i> ) White oak ( <i>Quercus alba</i> ), Northern pin oak ( <i>Quercus ellipsoidalis</i> ), Bur oak ( <i>Quercus macrocarpa</i> ), Common red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> ) Elms ( <i>Ulmus</i> sp.)	1984-1994	[47]
Asia	China	Forrest's fir ( <i>Abies ferreana</i> ) Birch ( <i>Betula</i> sp.) <i>Cyclobalanopsis</i> sp. Luiang spruce ( <i>Picea likiangensis</i> ), Schrenk's spruce ( <i>Picea schrenkiana</i> ssp. <i>tianshanica</i> ) Oak ( <i>Quercus</i> sp.) Elms ( <i>Ulmus</i> sp.)	1996	[54]
	Japan	Sachalin fir ( <i>Abies sachalinensis</i> ) Japanese linden ( <i>Tilia japonica</i> )	2005	[1]

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe		Silver fir ( <i>Abies alba</i> ), Greek fir ( <i>Abies borisi-regis</i> ) Sycamore ( <i>Acer pseudoplatanus</i> ) Hornbeam ( <i>Carpinus betulus</i> ) Sweet chestnut ( <i>Castanea sativa</i> ) Beech ( <i>Fagus sylvatica</i> ) Apple ( <i>Malus</i> sp.) Spruce ( <i>Picea abies</i> ), Purkyne Serbian spruce ( <i>Picea omorika</i> ) Austrian pine ( <i>Pinus nigra</i> ), Maritime pine ( <i>Pinus pinaster</i> ), Stone pine ( <i>Pinus pinea</i> ) Poplar ( <i>Populus</i> sp.), Silver poplar ( <i>Populus alba</i> ) <i>Prunus</i> sp., Wild cherry ( <i>Prunus avium</i> ), Almond ( <i>Prunus dulcis</i> ), Peach ( <i>Prunus persica</i> ) Pear ( <i>Pyrus</i> sp.)	1990-2006	[3]
	England	Sycamore ( <i>Acer pseudoplatanus</i> ) Italian alder ( <i>Alnus cordata</i> ) Downy birch ( <i>Betula pubescens</i> ) Atlas cedar ( <i>Cedrus atlantica</i> ) Lawson cypress ( <i>Chamaecyparis lawsoniana</i> ) Hazelnut ( <i>Corylus avellana</i> ) Beech ( <i>Fagus sylvatica</i> ) Wild strawberry ( <i>Fragaria vesca</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Persian walnut ( <i>Juglans regia</i> ) European larch ( <i>Larix decidua</i> ) Apple ( <i>Malus pumila</i> ) Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> ) <i>Pinus nigra</i> subsp. <i>laricio</i> , White pine ( <i>Pinus strobus</i> ), Scots pine ( <i>Pinus sylvestris</i> ) Poplar ( <i>Populus</i> sp.) Wild cherry ( <i>Prunus avium</i> ), Peach ( <i>Prunus persica</i> ), Sargent's cherry ( <i>Prunus sargentii</i> )	unknown	[8]

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	England	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Firethorn ( <i>Pyracantha</i> sp.) Willow-leaved pear ( <i>Pyrus salicifolia</i> ) Common oak ( <i>Quercus robur</i> ) <i>Rosa</i> sp. Willow ( <i>Salix</i> sp.) Rowan ( <i>Sorbus aucuparia</i> ) Linden ( <i>Tilia</i> sp.) Gorse ( <i>Ulex europaeus</i> ) Elms ( <i>Ulmus</i> sp.) Laurustinus ( <i>Viburnum tinus</i> )	unknown	[8]
		Buckeye/Chestnut ( <i>Aesculus</i> sp.) Birch ( <i>Betula</i> sp.) Witch hazels ( <i>Hamamelis</i> sp.) Privet ( <i>Ligustrum</i> sp.) <i>Prunus</i> sp. <i>Rhododendron</i> sp. Rowan ( <i>Sorbus</i> sp.)	2004-2007	[9]
		Leyland cypress ( <i>Cupressocyparis leylandii</i> ) Spindle ( <i>Euonymus</i> sp.) Privet ( <i>Ligustrum</i> sp.), Wild privet ( <i>Ligustrum vulgare</i> ) <i>Prunus</i> sp., Ansu apricot ( <i>Prunus armeniaca</i> ), Common plum ( <i>Prunus domestica</i> ), Damson plum ( <i>Prunus institia</i> ), Cherry laurel ( <i>Prunus laurcerasus</i> ), Portugal laurel ( <i>Prunus lusitanica</i> ) <i>Rhododendron</i> sp. Sweet box ( <i>Sarcococca</i> sp.) <i>Viburnum</i> sp. Wisteria sp.	2004-2007 2017	[10]

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	France	Grand fir ( <i>Abies grandis</i> ) Pendunculate oak ( <i>Quercus robur</i> )	1973-1978	[85]
		Fir ( <i>Abies</i> sp.) Beech ( <i>Fagus sylvatica</i> ) Pine ( <i>Pinus</i> sp.)	1990	[11]
		Sycamore ( <i>Acer pseudoplatanus</i> ) Hazelnut ( <i>Corylus avellana</i> ) Cider gum ( <i>Eucalyptus gunnii</i> ) Apple ( <i>Malus pumila</i> ) Norway spruce ( <i>Picea abies</i> ) Mountain pine ( <i>Pinus mugo</i> ), <i>Pinus nigra</i> subsp. <i>laricio</i> Poplar ( <i>Populus</i> sp.) Wild cherry ( <i>Prunus avium</i> ), Peach ( <i>Prunus persica</i> ) Sessile oak ( <i>Quercus petraea</i> ), Common oak ( <i>Quercus robur</i> ), Red oak ( <i>Quercus rubra</i> )	unknown	[8]
	Hungary	Oak ( <i>Quercus</i> sp.)	2016	[4]
	Italy	Common fig ( <i>Ficus carica</i> ) Sessile oak ( <i>Quercus petraea</i> ), Common oak ( <i>Quercus robur</i> ), Cork oak ( <i>Quercus suber</i> ) Elms ( <i>Ulmus</i> sp.)	unknown	[8]
		Austrian oak ( <i>Quercus cerris</i> )	unknown	[104]
		Oak ( <i>Quercus</i> sp.)	1997	[105]
		Grape vine ( <i>Vitis vinifera</i> )	2000	[88]

Supplementary Table 7. –continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Italy	Highbush blueberry ( <i>Vaccinium corymbosum</i> )	2003	[106]
		Austrian oak ( <i>Quercus cerris</i> ), Hungarian oak ( <i>Quercus frainetto</i> ), Pubescent oak ( <i>Quercus pubescens</i> )	unknown	[107]
	Norway	Wych Elm ( <i>Ulmus glabra</i> )	unknown	[16]
	Poland	Sessile oak ( <i>Quercus petraea</i> )	2005-2008	[19]
	Serbia	Norway spruce ( <i>Picea abies</i> )	2002-2007	[20]
		Pine ( <i>Pinus</i> sp.)		
		Poplar ( <i>Populus</i> sp.)		
		Hungarian oak ( <i>Quercus frainetto</i> ), Sessile oak ( <i>Quercus petraea</i> ), Turkey oak ( <i>Quercus cerris</i> ) White willow ( <i>Salix alba</i> )		
	Spain	<i>Vitis</i> sp.	1995-1997	[93]
		Silver fir ( <i>Abies alba</i> )	2002-2003	[21]
Black alder ( <i>Alnus glutinosa</i> ) Monterey pine ( <i>Pinus radiata</i> ) Pendunculate oak ( <i>Quercus robur</i> )		unknown	[95]	
Ukraine		Fir ( <i>Abies</i> sp.) Beech ( <i>Fagus</i> sp.) Spruce ( <i>Picea</i> sp.)	unknown	[27]

**Supplementary Table 8.** Geographical distribution of *Armillaria cepistipes* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference		
Asia		White mulberry ( <i>Morus alba</i> ) Wild cherry ( <i>Prunus avium</i> ) Chestnut-leaved oak ( <i>Quercus castaneifolia</i> )	1999-2001	[57]		
	Japan	Momi fir ( <i>Abies firma</i> ), Maries' fir ( <i>Abies mariesii</i> ) Japanese camellia ( <i>Camellia japonica</i> ) Japanese cypress ( <i>Chamaecyparis obtusa</i> ) Norway spruce ( <i>Picea abies</i> ), Koyama's spruce ( <i>Picea koyamae</i> ), Tigertail spruce ( <i>Picea polita</i> ) Scots pine ( <i>Pinus sylvestris</i> )	1976-2007	[2]		
			Japanese white birch ( <i>Betula platyphylla</i> var. <i>japonica</i> ) Japanese linden ( <i>Tilia japonica</i> )	2005	[1]	
	Europe	Albania	Silver fir ( <i>Abies alba</i> ) Black elder ( <i>Alnus glutinosa</i> ) Silver birch ( <i>Betula pendula</i> ) Hop hornbeam ( <i>Ostrya carpinifolia</i> ) Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian spruce ( <i>Picea omorika</i> ) Silver poplar ( <i>Populus alba</i> ) <i>Vitis</i> sp.	1990-2006	[3]	
Austria			Spruce ( <i>Picea</i> sp.)	2016	[4]	
Czech Republic			<i>Acer</i> sp. Alder ( <i>Alnus</i> sp.), Black alder ( <i>Alnus glutinosa</i> ) Hornbeam ( <i>Carpinus betulus</i> ) Beech ( <i>Fagus sylvatica</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Norway spruce ( <i>Picea abies</i> ) Common oak ( <i>Quercus robur</i> )	unknown	[5]	

Supplementary Table 8. -continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Finland	Silver Birch ( <i>Betula pendula</i> ), Downy birch ( <i>Betula pubescens</i> )	unknown	[59]
		Rowan ( <i>Sorbus aucuparia</i> )		
		Norway spruce ( <i>Picea abies</i> )		
	France	Norway spruce ( <i>Picea abies</i> )	1971	[108]
		Lime ( <i>Tilia platyphyllos</i> )		
		Fir ( <i>Abies</i> sp.)	1990	[11]
		Beech ( <i>Fagus</i> sp.) Pine ( <i>Pinus</i> sp.)		
	Greece	Lime ( <i>Tilia platyphyllos</i> )	unknown	[8]
Greek Fir ( <i>Abies borisi-regis</i> ) Beech ( <i>Fagus sylvatica</i> ) Norway spruce ( <i>Picea abies</i> ) Scots pine ( <i>Pinus sylvestris</i> )		1991-1996	[14]	
Lithuania	Common ash ( <i>Fraxinus excelsior</i> )	2001	[109]	
Norway	Birch ( <i>Betula</i> sp.), Downy birch ( <i>Betula pubescens</i> ) Common ash ( <i>Fraxinus excelsior</i> ) Norway spruce ( <i>Picea abies</i> ) Aspen ( <i>Populus tremula</i> ) Oak ( <i>Quercus</i> sp.) Western hemlock-spruce ( <i>Tsuga heterophylla</i> )	unknown	[16]	



Supplementary Table 8. -continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Serbia	Silver fir ( <i>Abies alba</i> )	2002-2007	[20]
		Balkan Beech ( <i>Fagus moesiaca</i> )		
		Norway spruce ( <i>Picea abies</i> ), Purkyne Serbian Spruce ( <i>Picea omorika</i> )		
		Austrian pine ( <i>Pinus nigra</i> )		
		Sessile oak ( <i>Quercus petraea</i> )		
	Slovakia	Alder ( <i>Alnus</i> sp.)	unknown	[5]
		Norway spruce ( <i>Picea abies</i> )		
		Goat willow ( <i>Salix caprea</i> )		
	Spain	<i>Vitis</i> sp.	1995-1997	[93]
		Silver fir ( <i>Abies alba</i> )	2002-2003	[21]
Switzerland	Silver fir ( <i>Abies alba</i> )	1997	[22]	
	Beech ( <i>Fagus sylvatica</i> )			
	European larch ( <i>Larix decidua</i> )			
	Norway spruce ( <i>Picea abies</i> )			
Ukraine	Mountain pine ( <i>Pinus mugo</i> )	2003-2004	[24]	
	Fir ( <i>Abies</i> sp.)	unknown	[27]	
	Beech ( <i>Fagus</i> sp.)			
Spruce ( <i>Picea</i> sp.)				

**Supplementary Table 9.** Geographical distribution of *Armillaria calvescens* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference	
<b>America</b>	Canada	Sugar maple ( <i>Acer saccharum</i> )	1987	[52]	
		Jack pine ( <i>Pinus banksiana</i> ) Quaking aspen ( <i>Populus tremuloides</i> )	unknown	[33]	
		Massachusetts	Striped maple ( <i>Acer pensylvanicum</i> ), Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Yellow birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ) American beech ( <i>Fagus grandifolia</i> ) White ash ( <i>Fraxinus americana</i> )	unknown	[36]
			Sweet birch ( <i>Betula lenta</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	unknown	[37]
	Michigan	Sour cherry ( <i>Prunus cerasus</i> )	1985	[38]	
	New York	Balsam fir ( <i>Abies balsamea</i> ) Red maple ( <i>Acer rubrum</i> ), Sugar maple ( <i>Acer saccharum</i> ) Golden birch ( <i>Betula alleghaniensis</i> ), Paper birch ( <i>Betula papyrifera</i> ) American beech ( <i>Fagus grandifolia</i> ) White ash ( <i>Fraxinus americana</i> ) Red spruce ( <i>Picea rubens</i> ) Red pine ( <i>Pinus resinosa</i> ), White pine ( <i>Pinus strobus</i> ), Scots pine ( <i>Pinus sylvestris</i> ) Black cherry ( <i>Prunus serotina</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Red oak ( <i>Quercus rubra</i> ) American linden ( <i>Tilia americana</i> ) Eastern hemlock-spruce ( <i>Tsuga canadensis</i> )	1986-1989	[42]	

Supplementary Table 9. -continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
<b>America</b>	New York	Balsam fir ( <i>Abies balsamea</i> )	unknown	[43]
		Sugar maple ( <i>Acer saccharum</i> )		
		American beech ( <i>Fagus grandifolia</i> )		
		Black cherry ( <i>Prunus serotina</i> )		
	Pennsylvania	Red maple ( <i>Acer rubrum</i> )	1995–1996	[56]
	Wisconsin	Sugar maple ( <i>Acer saccharum</i> )	1984-1994	[47]
Paper birch ( <i>Betula papyrifera</i> )				
Honeysuckle ( <i>Lonicera</i> sp.)				
Quaking aspen ( <i>Populus tremuloides</i> )				
Red oak ( <i>Quercus rubra</i> ), Black oak ( <i>Quercus velutina</i> )				
American linden ( <i>Tilia americana</i> )				
Elms ( <i>Ulmus</i> sp.)				

**Supplementary Table 10.** Geographical distribution of *Desarmillaria tabescens* based on epidemiology data

Continent	Country of occurrence	Host plant	Year of isolation	Reference
America	Mexico	Chilean pine ( <i>Araucaria araucana</i> ) Greek fir ( <i>Abies cephalonica</i> )	2007	[110]*
	Missouri	White alder ( <i>Nyssa sylvatica</i> ) Scarlet oak ( <i>Quercus coccinea</i> ), Blackjack oak ( <i>Quercus marilandica</i> ), Black oak ( <i>Quercus velutina</i> )	1993-1997	[75]*
	South Carolina	Holly ( <i>Ilex</i> sp.), Chinese holly ( <i>Ilex cornuta</i> ) Flaky juniper ( <i>Juniperis squamata</i> ) common plum ( <i>Prunus domestica</i> ), Peach ( <i>Prunus persica</i> ) Oak ( <i>Quercus</i> sp.) Indian Hawthorn ( <i>Raphiolepis indicus</i> ) Northern white-cedar ( <i>Thuja occidentalis</i> )	2001-2003	[111]*
Asia	Japan	Deodar cedar ( <i>Cedrus deodara</i> )	1976-2007	[2]*
	South Korea	Japanese plum ( <i>Prunus salicina</i> )	2007	[112]*
		Hornbeam ( <i>Carpinus tschonoskii</i> ) Chinese cork oak ( <i>Quercus variabilis</i> ) Jolcham oak ( <i>Quercus serrata</i> )	2013	[113]*
Europe	Albania	Silver fir ( <i>Abies alba</i> ) <i>Eucalyptus</i> sp. Valonia oak ( <i>Quercus aegilops</i> ), Austrian oak ( <i>Quercus cerris</i> ), Hungarian oak ( <i>Quercus frainetto</i> ), Holm oak ( <i>Quercus ilex</i> ), Sessile oak ( <i>Quercus petraea</i> ), Pubescent oak ( <i>Quercus pubescens</i> ), Pedunculate oak ( <i>Quercus robur</i> ), Common red oak ( <i>Quercus rubra</i> ) Poplar ( <i>Populus</i> sp.), Silver poplar ( <i>Populus alba</i> ) Almond ( <i>Prunus dulcis</i> ), Peach ( <i>Prunus persica</i> ) Pear ( <i>Pyrus</i> sp.), Common pear ( <i>Pyrus communis</i> )	1990-2006	[3]*

Supplementary Table 10. - continued

Continent	Country of occurrence	Host plant	Year of isolation	Reference
Europe	Greece	Greek fir ( <i>Abies cephalonica</i> ) Hungarian oak ( <i>Quercus frainetto</i> ) Almond ( <i>Prunus dulcis</i> )	1991-1996	[14]*
	Serbia	Hornbeam ( <i>Carpinus betulus</i> ) Hungarian oak ( <i>Quercus frainetto</i> ), Sessile oak ( <i>Quercus petraea</i> ), Turkey oak ( <i>Quercus cerris</i> )	2002-2007	[20]*

\*originally reported as *A. tabescens*

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