

FOREST FUNGI COLLECTED IN YOHO NATIONAL PARK, BRITISH COLUMBIA

by

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NORTHERN FOREST RESEARCH CENTRE  
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# FOREST FUNGI COLLECTED IN YOHO NATIONAL PARK, BRITISH COLUMBIA

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J. J. Lawrence and Y. Hiratsuka\*

## ABSTRACT

Sixty-one species of forest fungi collected on 32 different hosts in the Yoho National Park, British Columbia, Canada, are listed alphabetically under each host and common names of the disease or types of fungi are shown in connection with each fungus.

## INTRODUCTION

Following is a list of fungi collected during the forest disease surveys from 1952 to 1970 in Yoho National Park. They are arranged alphabetically under each host and common names of the diseases or types of fungi are also shown after each fungus name. Most of the specimens were collected by the field personnel of the Insect and Disease Survey Section of the Northern Forest Research Centre, Canadian Forestry Service. All specimens and records are kept at the Mycological Herbarium, Northern Forest Research Centre, Canadian Forestry Service, Edmonton, Alberta (International herbarium code letters: C F B).

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Abies lasiocarpa (Hook.) Nutt., alpine fir.

Dermea rhytidiformans Funk & Kuijt, fungus associated with "cork bark disease".

Echinodontium tinctorium Ell. & Ev., "Indian paint fungus", brown stringy rot.

Guepiniopsis torta (Fr.) Pat., slash fungus.

Lirula nervata (Darker) Darker, needle cast.

Pucciniastrum epilobii Otth., (0,I)\*, needle rust, II, III states on Epilobium.

Scleroderris abieticola Zeller & Goodding, associated with branch and stem cankers.

Stereum abietinum (Pers. ex Fr.) Fr., slash fungus.

Amelanchier alnifolia (Nutt.) Nutt., saskatoon-berry.

Gymnosporangium sp., (0,I) leaf rust, III state on Juniperus.

Aquilegia flavescens S. Wats., yellow columbine.

Puccinia recondita Rob. ex Desm. (0,I), leaf rust, II, III states on grasses.

Arctostaphylos rubra (Rehd. & Wils.) Fern., alpine bearberry.

Pucciniastrum sparsum (Wint.) E. Fisch. (II,III), leaf rust,

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\* 0, I, II, and III, denote spermatogonia, aecia, uredinia, and telia, respectively of rust fungi.

alternate states of a spruce needle rust.

Arctostaphylos uva-ursi (L.) Spreng., common bearberry.

Chrysomyxa arctostaphli Diet. (III), leaf rust, alternate states of  
"yellow witches' broom" of spruce.

Aster ciliolatus Lindl., Lindley's aster.

Coleosporium asterum (Diet.) Syd., (II,III), leaf rust, alternate  
states of a pine needle rust.

Betula papyrifera Marsh., white birch

Atopospora betulina (Fr.) Petr. (= Euryachora betulina (Fr.) Schroet.)  
"tar spot", on leaf.

Empetrum nigrum L., crowberry.

Chrysomyxa empetri Schroet. ex Cumm. (II,III) leaf rust, alternate  
states of a spruce needle rust.

Epilobium glandulosum Lehm.

Pucciniastrum epilobii Otth, (II,III) leaf rust, alternate states of  
a fir needle rust.

Ground.

Hydnum imbricatum Fr., toothed mushroom.

Juniperus communis L., ground juniper.

Gymnosporangium tremelloides Hartig., (III), globose gall rust, 0,I  
states on Sorbus.

Ledum groenlandicum Oeder, common Labrador tea.

Chrysomyxa ledicola Lagh., (II,III) leaf rust, alternate states of  
a spruce needle rust.

Menziesia glabella A. Gray.

Melasmia menziesiae Dearn. & Barth., leaf spot.

Picea engelmannii Parry, Engelmann spruce

Chrysomyxa arctostaphyli Diet., (0,I), "yellow witches' broom",  
twig and needle rust, III state on Arctostaphylos uva-uris.

Chrysomyxa pirolata Wint., (0,I) cone rust, II, III states on Pyrola.

Fomes pini (Thore ex Pers.) Lloyd, "red ring rot", red scale, conk or  
pecky rot.

Hericium ? laciniatum Leers & Banker, slash fungus.

Herpotrichia nigra Hartig , snow mold.

Lirula macrospora (Hartig ) Darker, needle cast.

Polyporus alboluteus Ell. & Ev., slash fungus.

Polyporus schweinitzii Fr., "red-brown butt rot", brown cubical  
heartwood rot.

Trametes heteromorpha (Fr.) Bres., brown cubical rot.

Picea glauca (Moench) Voss, white spruce.

Chrysomyxa arctostaphyli Diet., (0,I), "yellow witches' broom",  
twig and needle rust, III state on Arctostaphylos uva-uris  
Chrysomyxa empetri Schroet. ex Cumm., (0,I), needle rust, II, III  
states on Empetrum.

Chrysomyxa ledicola Lagh., (0,I), needle rust, II, III, states on  
Ledum.

Chrysomyxa weirii Jacks., (III), needle rust, autoecious microcyclic  
species.

Picea sp., spruce.

Chrysomyxa ledi By, (0,I), leaf rust, II, III states on Ledum.

Fomes pinicola (Sw. ex Fr.) Cke., "the red belt fungus", brown  
cubical rot.

Pinus contorta Dougl., lodgepole pine.

Arceuthobium americanum Nutt. ex Engelm., lodgepole pine dwarf  
mistletoe.

Cloeosporium asterum (Diet.) Syd., (0,I), needle rust, II, III states  
on Aster.

Cronartium coleosporioides Arth., (Peridermium stalactiforme  
Arth. & Kern), (0,I), "stalactiform blister rust", on stem,  
II, III states on Castilleja, Pedicularis, etc.

Endocronartium harknessii (J.P.Moore) Y. Hiratsuka, (Peridermium  
harknessii J.P. Moore), (III), "western gall rust", autoecious  
endocyclic species.

Pinus contorta Dougl., lodgepole pine (continued).

Hirschioporus abietinus (Dicks. ex Fr.) Donk, the purple conk, white pocket rot.

Pinus flexilis James, limber pine.

Cronartium ribicola J.C. Fisch.(O,I), "white pine blister rust", II, III states on Ribes (gooseberry & currants).

Populus balsamifera L., balsam poplar

Fomes igniarius (L. ex Fr.) Kickx, "tinder conk", "heartwood rot".

Pholiota destruens (Brond.) Quel., yellow laminated butt rot, living and dead wood.

Populus tremuloides Michx., trembling aspen.

Peniophora polygonia (Pers. ex Fr.) Bourd. & Galz., slash fungus.

Pseudotsuga menziesii (Mirb.) Franco, Douglas-fir.

Fomes cajanderi Karst., the rose-colored conk, brown pocket rot.

Fomes officinalis (Vill. ex Fr.) Faull., "chalky quinine fungus", felted heart rot", brown trunk rot.

Fomes pinicola (Sw. ex Fr.) Cke., "red belt fungus", brown cubical rot.

Phacidium abietis (Dearn.) Reid & Cain, snow blight.

Phacidium infestans Karst, snow blight.

Pyrola secunda L., one-sided wintergreen.

Chrysomyxa pirolata Wint., (II,III), leaf rust, alternate state  
of a spruce cone rust.

Ribes sp.

Cronartium ribicola J.C.Fisch., (II,III), leaf rust, alternate  
states of "white pine blister rust".

Puccinia parkerae Diet. & Holw., (III), leaf rust.

Rubus parviflorus Nutt., thimbleberry.

Phragmidium occidentale Arth., (0,I,II,III) leaf rust, autoecious  
species.

Rubus sp.

Phragmidium rubi-idaei (DC.) Karst. (0,I,II,III) leaf rust,  
autoecious species.

Pucciniastrum arcticum Tranz. (II,III) leaf rust, alternate states  
of a spruce needle rust.

Salix sp., willow

Melampsora epitea Thuem., (II,III), leaf rust, alternate states of  
conifer needle rust.

Rhytisma salicinum (Pers.) Fr., "tar spot", on leaves.



Sorbus sp., mountain ash.

Gymnosporangium tremelloides Hartig., (0,I) leaf rust, III state on  
Juniperus communis.

Taxus brevifolia Nutt., western yew.

Sphaerulina taxicola (Pk) Berl, associated with leaf blight.

Thuja plicata Donn, western cedar.

Didymascella thujina (Durand) Maire, leaf blight.

Vaccinium myrtillus L., low bilberry.

Pucciniastrum goeppertianum (Kuehn) Kelb., (III) stem rust, alternate  
state of a fir needle rust.

Vaccinium scoparium Leiberg, grouse-berry

Pucciniastrum goeppertianum (Kuehn) Kelb., (III) stem rust,  
alternate states of a fir needle rust.

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