

FOREST FUNGI COLLECTED IN KOOTENAY NATIONAL PARK, BRITISH COLUMBIA

by

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ABSTRACT

Eighty-five species of forest fungi collected on 34 different hosts in the Kootenay 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 Kootenay 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.

Auricularia auricula (Hook.) Underw., slash fungus.

Echinodontium tinctorium Ell. & Ev., brown stringy heart rot.

Epipolaeum abietis (Dearn.) Shoemaker, needle blight.

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

Isthmiella abietis (Dearn.) Darker, needle cast.

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

Lachnellula agassizii (Berk. & Curt.) Dennis, stem fungus.

Lenzites saepiaria (Wulf. ex Fr.) Fr., slash fungus.

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

Pucciniastrum epilobii Otth (O,I)^{*}, needle rust, II, III states
on Epilobium sp.

Acer glabrum Torr., mountain maple.

Septoria aceris (Lib.) Berk & Br., leaf spot.

Alnus tenuifolia Nutt., mountain alder.

Daedalea unicolor Bull. ex Fr., heart rot, associated with
cankers.

Alnus sp.

Poria ferruginosa (Schrad. ex Fr.) Karst., slash fungus.

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

Colletotrichum gloeosporioides Penz. senu Arx, hyperparasite
on seeds.

Wallrothiella arceuthobii (Pk) Sacc., hyperparasite on seeds.

* O, I, II and III denote spermogonia, aecia, uredinia and telia respectively of rust fungi.

Aster cilioatus Lindl., Lindley's aster.

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

Betula papyrifera Marsh., white birch.

Fomes fomentarius L. ex Fr.) Kickx, white mottled rot.

Betula sp., birch.

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

Conifers

Polyporus lapponicus Rom., slash fungus.

Poria purpurea (Fr.) Cooke, associated with a white rot.

Cronartium comandrae Pk., "Comandra blister rust" of hard pines.

Tuberculina maxima Rostr., hyperparasite on rust fungus.

Empetrum nigrum L., crowberry.

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

Hedysarum sulphurescens Rydb.

Uromyces hedyscuri (DC.) Lev., (0, I, II, III) leaf rust.

Juniperus communis L., ground juniper.

Gymnosporangium clavariiforme (Pers.) DC., (III) gall rust,
0, I, states on Amelanchier sp.

Stigmina glomerulosa (Sacc.) Hughes, leaf fungus.

Juniperus horizontalis Moench, creeping juniper

Gymnosporangium nelsoni Arth. (III) gall rust, 0, I, states
on Amelanchier spp.

Juniperus scopulorum Sarg., Rocky Mountain juniper.

Gymnosporangium nidus-avis Thaxt., (III), rust on leaves and
branches, 0, I, states on Amelanchier.

Gymnosporangium tubulatum Kern ex Arth., (III), globoid rust
galls, O, I, states on Crataegus.

Seynesiella juniperi (Desm.) Arn., leaf fungus.

Larix occidentalis Nutt., western larch.

Corticium centrifugum complex, slash fungus.

Cytospora curreyi Sacc., branch fungus

Hypodermella laricis Tub., needle cast.

Lophodermium laricinum Duby., needle cast.

Hirschioporus abietinus Dicks. ex Fr., "the purple conk",
white pocket rot.

Ledum glandulosa Nutt., glandular Labrador tea.

Chrysomyxa ledi d By, (II, III) leaf rust, alternate states
of a spruce needle rust.

Ledum groenlandicum Oeder, common Labrador tea.

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

Ledum palustre L. var. decumbens Ait., northern Labrador tea.

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

Lonicera dioica L. var. glaucescens (Rydb.) Butters, twining honeysuckle.

Laisobtrys lonicerae (Fr.) Kze., leaf spot.

Melampyrum lineare Desr., cow-wheat.

Cronartium coleosporioides Arth., (II, III) leaf rust, alternate
states of "stalactiform blister rust" of hard pines.

Monziesia glabella A. Gray.

Cladosporium sp., saprophyte.

Picea engelmannii Parry, Engelmann spruce.

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

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

Fomes nigrolimitatus (Rom.) Egel., white pocket rot.

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

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

Picea glauca (Moench) Voss, white spruce.

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

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

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

Chrysomyxa weirii Jacks., (III) needle rust, autoecious micro-
cyclic species.

Lirula macrospora (Hartig) Darker, needle cast.

Picea sp., spruce.

Chrysomyxa empetri Schroet. ex Cumm., (0, I) needle rust, II,
III states on Empetrum.

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

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

Pinus albicaulis Engelm., whitebark pine

Cronartium ribicola J.C. Fisch., (0, I) white pine blister rust",
II, III states on Ribes (gooseberry and currants).

Pinus contorta Dougl., lodgepole pine.

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

Atropellis piniphila (Weir) Lohman & Cash, "Atropellis canker"
on stem.

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

Corticium centrifugum complex, slash fungus.

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

Elytroderma deformans (Weir) Darker, needle cast.

Endocronartium harknessii (J.P. Moore) Y. Hiratsuka, (0, III)
"western gall rust", autoecious endocyclic species.

Gloeocoryneum cinereum (Dearn.) Weindlmayr, needle cast.

Hendersonia pinicola Wehm., needle cast.

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

Lophodermella concolor (Dearn.) Darker, needle cast.

Lophodermella montivaga Petr., needle cast.

Lophodermium pinastri (Schrad. ex Fr.) Chev., needle cast.

Scirrhia pini Funk & A.K. Parker, (Dothistroma pini Hulbary
var. linearis Thyr. & Shaw), "Dothistroma needle cast".

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

Populus tremuloides Michx., trembling aspen.

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

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

Tremella mensenterica Fr., slash fungi.

Venturia tremulae Aderh. (Pollaccia radiosa (Lib.) Bald. & Cif.),
leaf and twig blight.

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

Amillaria mellea (Vahl ex Fr.) Quel., "Armillaria root rot", "shoe-
string fungus rot", spongy rot and butt rot.

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

Melampsora medusae Thuem. (0, I) needle rust, II, III states in

Pragmopora pithya (Fr.) Groves, branch fungus.

Rhabdocline pseudotsugae Syd., needle cast.

Ribes sp.

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

Salix sp., Willow.

Ciborinia foliicola (Cash & Davidson) Whet., leaf fungus.

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

Sheperdia canadensis (L.) Nutt., Canadian buffalo-berry.

Puccinia caricis-sheperdiae J.J. Davis, (0, I) leaf rust, II, III
states on Carex.

Solidago sp., goldenrod.

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

Spiraea lucida Dougl., white meadowsweet.

Cylindrosporium filipendulae Thuem., leaf spot.

Vaccinium myrtillus L., low bilberry.

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

Viola sp., violet.

Puccinia violae (Schum.) D.C., (0, I, II, III), leaf rust,
autoecious species.

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