

Directory of Experts in the Identification of British Columbia Species

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Province of British Columbia
Ministry of Forests Research Program

Directory of Experts in the Identification of British Columbia Species

Hannah Nadel



Province of British Columbia
Ministry of Forests Research Program

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This directory is a guide to experts able to identify organisms found in British Columbia. It provides a quick reference to the names and addresses of those people (and in some instances, companies) who can identify species in particular groups, and who can identify collectively many of the diverse plants, animals, protists, bacteria, and fungi found in British Columbia's ecosystems. These experts include professional taxonomists and systematists who study and name species, as well as researchers, contractors, individuals who are experienced in species identification using available keys, and knowledgeable amateurs whose abilities have been recognized and recommended by professionals. Retired professionals are also listed because many are still active in their fields of work. The objective in compiling this list was not to identify all experts in the field, but rather to identify at least some of the known experts for as many of British Columbia's taxa as possible.

Please note that the inclusion in this directory of individuals or the companies they work for does not guarantee or imply their willingness to provide services directly to readers. Directory users must first obtain the consent of the expert to provide a service before they make any other arrangements for identification of material.

Experts are not identified for all species groups included here. For the most part, these gaps reflect a genuine lack of expertise. Some gaps, however, may reflect an oversight. In any case, with new species still being discovered and many others remaining unnamed, the need for expertise will continue to grow. (Consider, for instance, that there are an estimated 28 000 species of insects for every insect taxonomist.)

1.1 How to Use the Directory

The directory is arranged by taxa (groups of related organisms) in phylogenetic order, according to the five-kingdom system of higher classification (for taxonomic sources, see page 3). In general, the groups are limited to those represented in British Columbia. Within each taxon, lower taxa are presented in increasing order of specificity, ending with the lowest level for which an expert is available, but not lower than family level. The order of presentation is:

Kingdom
Phylum (in animals) or
Division (in bacteria, plants, and fungi)
Class
Order
Family

Some intermediate taxa are also included if they are important or if they delineate groups covered by experts. Subgroups within each taxon are listed only if an expert is available for at least one of them. For instance, families within an order are not listed unless there is an expert who specializes in at least one family in that order. A taxon for which several experts are available is often not further divided into lower taxa.

Special Notations Taxa shown in quotation marks represent historic, artificial groups of what are now known to be distantly related organisms. These artificial taxa often remain in use as a convenience until the phylogenetic relationship of their components is sorted out.

To help the reader find the group to which the organism in question belongs, some common names, examples, or short descriptions of the taxon are provided in parentheses adjacent to the scientific name. Familiarity with major groups of organisms will facilitate the use of this directory.

Taxa encountered in bulk aquatic samples are marked with an asterisk (*). These organisms are included, along with the names of experts associated with them, in a separate supplemental list at the end of the directory. This supplement is arranged by habitat rather than phylogeny.

Recommended Approach Search the “Index to Major Taxa” on page 4 to find the page number corresponding to the start of the major group (taxon) that includes the organism in question. Beside the major groups in the directory there may be listed some “generalist” experts familiar with many or all of the subgroups within it.

- Contact a generalist first, if one is identified. This is especially important if you do not know which of the lower groups includes your organism. (Generalists are listed first, followed by specialists.)

If no generalist is available, contact a “specialist” expert. He or she can at least determine the family to which your organism belongs, and redirect you to another specialist.

An expert’s specialty or focus of study is often listed in brackets immediately to the left of his or her name. In some cases experts appear in the list as both generalists and specialists if they have broad knowledge but are particularly interested in certain lower taxa. In some cases the noted specialties reflect a functional or habitat grouping rather than a phylogenetic one (for instance, forest pathogens or aquatic vascular plants).

- Before sending away specimens for identification, obtain the prior consent of the expert or company. In some cases certain conditions must be met before the expert will accept your samples. The quality, quantity, and preparation of specimens are common preconditions, as well as the availability of time for providing the identifications. There may be a fee for the service.
- If you are collecting new specimens for identification, contact the experts or refer to the literature to determine how specimens should be properly collected, handled, labelled, stored, and shipped. Otherwise, the samples may be rendered worthless.

1.2 Voucher Specimens

Because the accuracy of identifications may require re-examination of specimens, and because species names are not static and may be revised as new species are discovered or existing ones are split or lumped, it is imperative that voucher specimens be prepared when species inventories are being compiled. Voucher specimens are series of specimens of each species collected during a study. Each series is labelled as vouchers and deposited in, preferably, a recognized biosystematic collection for future reference.

The importance of voucher specimens is evident in the following hypothetical example. If your species A is later determined to consist of three species, A, B, and C, a series of specimens from your study must be examined to determine which of these species were actually represented in your study. In addition, if the newly named species B is discovered to be among your voucher specimens, but it is no longer found in the area you surveyed, you may reasonably conclude that it has been extirpated. Without the voucher specimens this important change in species status might be overlooked.

Vouchers help avoid uncertainty in your data and prevent the need for resampling when taxonomic changes are made.

1.3 Taxonomic
Sources

The system of classification used in this directory has been modified from the following sources:

Bousquet, Y. (editor). 1991. Checklist of beetles of Canada and Alaska. Agric. Can., Ottawa, Ont.

Cannings, R.A. and A.P. Harcombe (editors). 1990. The vertebrates of British Columbia. Royal B.C. Museum and B.C. Min. Environ., Wildl. Br., Victoria, B.C.

Goulet, H. and J.T. Huber (editors). 1993. Hymenoptera of the world: an identification guide to families. Agric. Can., Ottawa, Ont.

Hitchcock, C.L. and A. Cronquist. 1973. Flora of the Pacific Northwest. Univ. Wash., Seattle, Wash.

Keeton, W.T. and J.L. Gould. 1986. Biological science. 4th ed. W.W. Norton, New York, N.Y.

McAlpine, J.F., B.V. Peterson, G.E. Shewell, H.J. Teskey, J.R. Vockeroth, and D.M. Wood (co-ordinators). 1981. Manual of Nearctic Diptera. Vol. 1. Agric. Can., Agric. Can. Monogr. 27.

_____. 1987. Manual of Nearctic Diptera. Vol. 2. Agric. Can., Agric. Can. Monogr. 28.

McAlpine, J.F. and D.M. Wood (co-ordinators). 1989. Manual of Nearctic Diptera. Vol. 3. Agric. Can., Agric. Can. Monogr. 32.

Parker, S.P. (editor). 1982. Synopsis and classification of living organisms. McGraw-Hill, New York, N.Y.

(*) indicates taxa included in the Supplemental List

(" ") indicates artificially grouped taxa

Kingdom Monera (viruses, bacteria)	9
Section Eubacteria (bacteria)	9
Kingdom Protista	10
Section Protophyta* (algae and euglenoids)	10
Division Euglenophyta* (euglenoids)	10
Division Chrysophyta* (algae)	10
Division Pyrrophyta* (dinoflagellates)	11
Division Cryptophyta* (cryptomonads)	11
Section Protomycota (fungal protists)	11
Division Acrasiomycota (cellular slime moulds)	11
Division Myxomycota (true slime moulds)	11
Division Plasmodiophoromycota (plasmodiophores)	11
Division Chytridiomycota (chytrids)	11
Division Hyphochytridiomycota (hyphochytrids)	11
Division Oomycota (water moulds)	11
Section Protozoa (animal-like protists)	12
Phylum Mastigophora* ("animal" flagellates, opalinids)	12
Phylum Sarcodina* (pseudopodal protozoans)	12
Phylum Sporozoa (sporulation protozoans [parasitic])	13
Phylum Cnidospora (cnidosporian protozoans [parasitic])	13
Phylum Ciliata* (ciliate protozoans)	13
Kingdom Plantae	13
Division Chlorophyta (green algae, sea weeds)	13
Division Charophyta (stoneworts)	13
Division Phaeophyta (brown algae, sea weeds)	13
Division Rhodophyta (red algae, sea weeds)	13
Division Bryophyta (liverworts, hornworts, mosses)	14
Division Tracheophyta (vascular plants)	15
Subdivision Lycopsidea (club and spike mosses)	15
Subdivision Sphenopsida (horsetails)	16
Subdivision Pteropsida (ferns)	16
Subdivision Spermopsida (seed plants)	16
Class Coniferae (conifers)	16
Class Angiospermae (flowering plants)	16
Subclass Dicotyledoneae (dicots)	16
Subclass Monocotyledoneae (monocots)	21
"Lichens" (crustose, foliose, squamulose, fruticose lichens)	22
Kingdom Fungi	23
Division Zygomycota	23
Class Zygomycetes (conjugation fungi)	23
Class Trichomycetes (arthropod-gut fungi)	25
Division Ascomycota (sac fungi)	25
Class Hemiascomycetes (yeasts and relatives)	25
Class Loculoascomycetes (some plant and scale insect parasites, lichen fungi)	25

Class Plectomycetes (wilts, fruit moulds, bee and mammal pathogens)	25
Class Pyrenomycetes (powdery mildews, cellulose decomposers, root rots)	26
Class Discomycetes (morels and relatives)	26
Class Laboulbeniomycetes (external on arthropods)	26
Division Basidiomycota (club fungi)	27
Class Teliomycetes (rusts, smuts, yeast-like forms)	27
Class Phragmobasidiomycetes (jelly fungi, dacrymyces)	27
Class Hymenomycetes (mushrooms, bracket fungi, coral fungi)	28
“Class Gasteromycetes” (false truffles, secotioid fungi, puffballs, stinkhorns, bird’s nest fungi)	32
“Division Deuteromycota” (imperfect fungi)	32
“Class Hyphomycetes”	32
Class Coelomycetes (plant parasites, saprophytes)	33
Kingdom Animalia	33
Phylum Porifera* (sponges)	33
Section Radiata	33
Phylum Cnidaria* (jellyfishes, sea anemones)	33
Class Hydrozoa (hydrozoans)	33
Class Scyphozoa (jellyfish)	34
Class Anthozoa (sea anemones, corals)	34
Phylum Ctenophora* (comb jellies)	35
Section Protostomia	35
Phylum Platyhelminthes (flatworms)	35
Class Turbellaria* (flatworms)	35
Class Trematoda* (flukes, parasitic flatworms)	35
Class Cestoda (tapeworms)	36
Phylum Nemertea* (proboscis worms)	37
Phylum Acanthocephala (spiney-headed worms)	37
Phylum Mesozoa (parasites of marine invertebrates)	37
Phylum Rotifera* (rotifers)	37
Phylum Gastrotricha* (gastrotrich worms)	38
Phylum Kinorhyncha* (kinorynch worms)	38
Phylum Nematoda* (round worms)	38
Phylum Nematomorpha* (horsehair worms)	39
Phylum Priapulida* (priapulid worms)	39
Phylum Bryozoa* (moss animals)	40
Phylum Phoronida* (phoronids)	40
Phylum Entoprocta* (entoprocts)	40
Phylum Brachiopoda* (lamp shells)	40
Phylum Mollusca* (clams, snails, squids)	40
Class Solenogastres (shell-less, wormlike molluscs)	40
Class Polyplacophora (chitons)	40
Class Gastropoda (snails, slugs)	40
Class Scaphopoda (tusk shells)	41
Class Bivalva (bivalve molluscs)	41
Class Cephalopoda (squids, octapods)	42
Phylum Pogonophora* (beard worms)	42
Phylum Sipuncula* (sipunculid worms)	42

Phylum Echiura* (echiurid worms)	42
Phylum Annelida* (segmented worms)	42
Class Polychaeta (sandworms, tubeworms)	42
Class Oligochaeta (earthworms and relatives)	42
Class Hirudinoidea (leeches)	43
Phylum Tardigrada (water bears)	43
Phylum Arthropoda (spiders, mites, centipedes, crustaceans, insects)	43
Subphylum Chelicerata (chelicerate arthropods)	43
Class Pycnogonida* (sea spiders)	43
Class Arachnida (spiders, mites, scorpions)	44
Order Solpugida (sun spiders)	44
Order Scorpionida (scorpions)	44
Order Pseudoscorpionida (pseudoscorpions)	44
Order Aranaeae (spiders)	44
Order Opiliones (harvestmen)	45
Order Parasitiformes (predatory mites, ticks)	45
Order Acariformes (mites)	46
Subphylum Uniramia (ostracods, crustaceans, centipedes insects) .	47
Class Ostracoda* (ostracods)	47
Subclass Myodocopa	47
Subclass Podocopa	47
Order Podocopida (freshwater ostracods)	47
Order Platycopida	47
Order Metacopida	47
Class Crustacea*	47
Subclass Branchiopoda	47
Superorder Diplostraca (cladocera, clam shrimp)	47
Superorder Sarsostraca	48
Order Anostraca (fairy shrimp)	48
Subclass Copepoda (copepods)	48
Order Calanoida (calanoid copepods)	48
Order Harpacticoida (harpacticoid copepods)	48
Order Cyclopoida (cyclopoid copepods)	48
Order Notodelphyoida (in sedentary tunicates)	48
Order Monstrilloida (parasites of marine invertebrates)	48
Order Caligoida (parasites of fishes)	48
Superorder Calmanostraca	48
Order Notostraca (tadpole shrimp)	48
Subclass Cirripedia (barnacles)	48
Subclass Malacostraca	48
Superorder Peracarida (isopods, amphipods)	48
Order Mysidacea (shrimplike, epibenthic, pelagic)	48
Order Cumacea (tadpole-like, burrowers)	49
Order Tanaidacea (cylindrical, benthic)	49
Order Isopoda (sea slaters, wood lice)	49
Order Amphipoda (scuds, beach fleas)	49
Superorder Eucarida (crabs, true shrimp, krill)	50
Order Euphausiacea (krill)	50
Order Amphionidacea (pelagic)	50

Order Decapoda (crabs, true shrimp, lobsters)	50
Class Chilopoda (centipedes)	50
Class Diplopoda (millipedes)	50
Class Pauropoda (pauropods)	50
Class Symphyla (symphylids)	51
Superclass Hexapoda	51
Class Protura (proturans)	51
Class Collembola (springtails)	51
Class Insecta (insects)	51
Order Microcoryphia (jumping bristletails)	51
Order Thysanura (silverfish)	51
Order Ephemeroptera* (mayflies)	52
Order Odonata* (dragonflies, damselflies)	52
Order Orthoptera (grasshoppers, crickets)	52
Order Blattaria (cockroaches)	53
Order Mantodea (mantids)	53
Order Grylloblattaria (snow crickets, ice bugs)	53
Order Isoptera (termites)	54
Order Dermaptera (earwigs)	54
Order Plecoptera* (stoneflies)	54
Order Psocoptera (booklice, woodlice)	54
“Order Mallophaga” (chewing lice)	54
Order Anoplura (sucking lice)	54
Order Thysanoptera (thrips)	54
Order Hemiptera (true bugs)	55
Order Homoptera (cicadas, hoppers, scales, aphids)	55
Suborder Auchenorrhyncha (leafhoppers, cicadas, planthoppers, spittlebugs)	55
Suborder Sternorrhyncha (whiteflies, aphids, scales, mealybugs)	56
Order Megaloptera* (dobsonflies, alderflies)	57
Order Raphidioptera (snakeflies)	57
Order Neuroptera (lacewings, antlions)	57
Order Coleoptera (beetles)	58
Suborder Adephaga	58
Suborder Polyphaga	59
Order Strepsiptera (twisted-wing parasites)	69
Order Mecoptera (scorpionflies)	68
Order Diptera (true flies)	69
Suborder Nematocera	69
Suborder Brachycera	71
Order Siphonaptera (fleas)	77
Order Lepidoptera (moths, butterflies)	77
Order Trichoptera (caddisflies)	77
Order Hymenoptera (sawflies, bees, wasps, ants)	78
Suborder Symphyta (sawflies)	78
Suborder Apocryta (bees, wasps, ants)	78
Subphylum Pentastomida (tongue worms)	87
Section Deuterostomia	87
Phylum Chaetognatha* (arrow worms)	87

Phylum Echinodermata* (starfish and relatives)	88
Subphylum Crinozoa (crinoids)	88
Subphylum Asterozoa	88
Class Stellerioidea (sea stars and relatives)	88
Class Echinoidea (sea urchins, sand dollars)	88
Class Holothuroidea (sea cucumbers)	88
Phylum Hemichordata* (acorn worms)	89
Phylum Chordata (chordates)	89
Subphylum Tunicata* (tunicates)	89
Class Ascidiacea (sessile sea squirts)	89
Class Thaliacea (pelagic tunicates)	89
Class Appendicularia (solitary pelagic tunicates)	89
Subphylum Vertebrata (vertebrates)	89
Class Cyclostomata (jawless fishes)	89
Order Myxiniiformes (hagfishes)	89
Order Pteromyzoniformes (lampreys)	89
Class Chondrichthyes (sharks, rays)	89
Class Osteichthyes* (bony fishes)	90
Class Amphibia (frogs, salamanders)	91
Class Reptilia (turtles, snakes, lizards)	92
Class Aves (birds)	92
Class Mammalia (mammals)	93
Order Insectivora (moles, shrews)	93
Order Chiroptera (bats)	93
Order Lagomorpha (rabbits, hares, pikas)	93
Order Rodentia (rodents)	93
Order Odontocera (toothed whales, dolphins)	94
Order Mysticeta (baleen whales)	94
Order Carnivora (carnivores)	94
Order Artiodactyla (even-toed ungulates)	94
Supplemental Lis t	95
Marine	95
Benthic organisms (bottom dwellers)	95
Ichthyoplankton (larval fishes)	95
Intertidal mud and sandflats (invertebrates)	95
Macroinvertebrates	96
Periphyton (attached algae and plants)	96
Phytoplankton (floating algae)	96
Zooplankton (floating animals)	96
Freshwater	97
Benthic organisms (bottom dwellers)	98
Macroinvertebrates	98
Periphyton (attached aquatic algae and plants)	98
Phytoplankton (floating algae and plants)	99
Zooplankton (floating animals)	99

Kingdom Monera
(viruses, bacteria)

Section Eubacteria
(bacteria)

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Kingdom Protista

Section Protophyta*
(algae and euglenoids)

Division Euglenophyta
(euglenoids)

Division Chrysophyta
(algae)

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Class Chrysophyceae
(golden-brown algae)

Class Haptophyceae
(haptophytes, coccolithophores)

Class Xanthophyceae
(yellow-green algae)

Class Eustigmatophyceae
(eustigmatophytes)

Class Chloromonadophyceae
(chloromonads)

Class Bacillariophyceae
(diatoms)

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(dinoflagellates)

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Division Cryptophyta
(cryptomonads)

Section Protomycota
(fungal protists)

Division Acrasiomycota
(cellular slime moulds)

Division Myxomycota
(true slime moulds)

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Division Plasmodiophoromycota
(plasmodiophores)

Division Chytridiomycota
(chytrids)

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(hyphochytrids)

Division Oomycota
(water moulds)

Section Protozoa
(animal-like protists)

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Phylum Mastigophora*

Class Zoophlagellata
("animal" flagellates)

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Class Opalinata
(opalinids)

Phylum Sarcodina*
(pseudopodal protozoans)

Class Rhizopodea
(amoebae)

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Class Actinopodea
(radiolarians, heliozoans)

Phylum Sporozoa
(sporulation protozoans [parasitic])

Phylum Cnidospora
(cnidosporian protozoans [parasitic])

Class Myxosporea
[parasitic on fish]

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[parasitic on marine
and anadromous fish]

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and Oceans
Nanaimo, BC v9r 5k6
Tel: (604) 756-7032
Fax: (604) 756-7053

Class Microsporea

Phylum Ciliata*
(ciliate protozoans)

Kingdom Plantae

Division Chlorophyta
(green algae, sea weeds)

Alan P. Austin
Dept. of Biology
University of Victoria
Victoria, BC v8w 2y2
Tel: (604) 721-7140
Fax: (604) 721-7120

Division Charophyta
(stoneworts)

Division Phaeophyta
(brown algae, sea weeds)

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Fax: (604) 721-7120

Thomas B. Widdowson
4635 W. Saanich Rd.
Victoria, BC v8z 3g7
Tel: (604) 479-9167

Division Rhodophyta
(red algae, sea weeds)

Division Bryophyta
(liverworts, hornworts, mosses)

Wilf Schofield (retired)
Dept. of Botany
University of British Columbia
#3529-6270 University Blvd.
Vancouver, BC v6t 1z4
Tel: (604) 822-5006
Fax: (604) 822-6089

Class Hepaticopsida
(liverworts)

René Belland
c/o Dale H. Vitt
Dept. of Botany
University of Alberta
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Tel: (403) 492-3380

Linda Ley
2211-1171 Ambleside Dr.
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B.C. Ministry of Environment,
Lands and Parks
780 Blanshard St.
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Tel: (604) 356-5545
Fax: (604) 387-9750

Class Anthocerotopsida
(hornworts)

Wilf Schofield (retired)
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Fax: (604) 822-6089

Class Bryopsida
(true mosses)

René Belland
c/o Dale H. Vitt
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Mike Ryan
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Tel: (604) 727-2153

Class Sphagnopsida
(peat mosses)

Dale H. Vitt
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Tel: (403) 492-3380

Class Andreaeopsida
(granite mosses)

Barbara Murray
University of Alaska Museum
Fairbanks, AK 99775-1200
Tel: (907) 474-7505

Division Tracheophyta
(vascular plants)

Geraldine Allen
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Chris Brayshaw
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Fax: (604) 822-2016

Jim Pojar and Ros Pojar
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[aquatic] **Adolf Ceska**
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[northeastern B.C.] **Craig DeLong**
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Fax: (604) 565-6671

[Okanagan area] **Malcolm Martin**
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Subdivision Lycopsidea
(club and spike mosses)

Subdivision Sphenopsida
(horsetails)

Subdivision Pteropsida
(ferns)

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Subdivision Spermopsida
(seed plants)

[alpine, subalpine,
maritime, weeds, toxics] **Bob Ogilvie (retired)**
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Tel: (604) 387-2917
Fax: (604) 387-5360

Class Coniferae
(conifers)

Family Cupressaceae
(junipers, cedars)

Family Pinaceae
(pines, larches, firs,
spruces)

Class Angiospermae
(flowering plants)

Subclass Dicotyledoneae
(dicots)

Order Nymphaeales
(water-lilies, water-shield,
hornworts)

Order Ranunculales

Family Ranunculaceae
(buttercups, anemones,
columbines, larkspurs)

Chris Brayshaw
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Fax: (604) 387-5360

Family Berberidaceae
(Oregon grape, mahonia)

Order Papaverales
(poppies, corydalis)

Order Urticales
(stinging nettles)

Order Fagales
(oaks, beeches, birches,
alders, hazelnuts)

Order Caryophyllales
(cacti, saltbushes, pigweeds,
purslanes, pinks)

Order Polygonales
(buckwheats, sorrels, bistorts)

Order Theales
(waterworts, St. John's-worts)

Order Malvales
(mallows)

Order Violales
(violets, blazing stars)

Order Salicales

Family Salicaceae
(willows)

Chris Brayshaw
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Fax: (604) 387-5360

Order Capparales
(mustards)

Order Ericales
(crowberry, arbutus,
blueberries, rhododendrons,
pyrolas)

Order Primulales
(primroses, shooting-stars,
sea pinks)

Order Rosales
(mock-oranges, currants,
sedums, saxifrages, roses,
cherries)

Order Fabales

Family Fabaceae

(peas, clovers, lupines,
vetches)

[lupines] **Wilf Nichols**
UBC Botanical Garden
University of British Columbia
6804 SW Marine Dr.
Vancouver, BC v6t 1z4
Tel: (604) 822-4188

Order Proteales

(eleagnus, buffalo-berry)

Order Haloragales

Family Haloragaceae

(water-milfoils)

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Order Myrtales

Family Onagraceae

(evening primroses,
fireweeds)

Gerald B. Straley
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Order Cornales

(dogwoods)

Order Santalales

(mistletoes, comandras,
false toadflaxes)

Order Celastrales

(mountain-box, wahoo)

Order Euphorbiales

(spurges)

Order Rhamnales

(buckthorns, cascaras)

Order Linales

(flaxes)

Order Sapindales

(maples, sumacs)

Order Geraniales

(oxalis, wood-sorrel,
geraniums, meadow-foam,
jewelweeds)

Order Apiales

(wild sarsparilla, devil's
club, carrots, parsnips)

Order Gentianales

(gentians, fraseras,
dogbanes, milkweeds)

Order Solanales

(nightshades, ground-cherries,
morning-glories, dodders,
buckbean, floxes, phacelias)

Order Lamiales

Family Boraginaceae

(forget-me-nots, hound's-
tongue)

[*Hackelia*]

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Family Verbenaceae

(vervains)

Family Lamiaceae

(mints, sages)

Order Callitrichales

(mare's-tails, water-starworts)

Order Plantaginales

(plantains)

Order Scrophulariales

Family Oleaceae

(ash)

Family Scrophulariaceae

(Indian-paintbrushes, butter-
and-eggs, monkeyflower)

[*Castilleja*]

Bob Ogilvie (retired)

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[*Mimulus, Collinsia*] **Fred Ganders**
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Fax: (604) 822-6089

Family Orobanchaceae
(groundcones, broomrapes)

Family Lentibulariaceae
(butterworts, bladderworts)

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Order Campanulales
(bellflowers, triodanis)

Order Rubiales
(bedstraws)

Order Dipsacales
(honeysuckles, elderberries,
snowberries, moschatels,
valerians, plectritis)

Order Asterales

Family Asteraceae
(sunflowers, daisies,
balsamroots)

George Douglas
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[*Aster*] **Geraldine Allen**
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[*Bidens*] **Fred Ganders**
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[*Arnica*] **Gerald B. Straley**
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Subclass Monocotyledoneae
(monocots)

Order Alismatales
(water-plantains, arrowheads)

Order Hydrocharitales
(elodeas, waterweeds)

Order Najadales

Family Scheuchzeriaceae
(scheuchzeria)

Family Juncaginaceae
(flowering quillwort,
arrow-grasses)

Family Potamogetonaceae
(pondweeds)

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Family Ruppiaceae
(ditch-grasses)

Family Najadaceae
(water-nymphs)

Family Zannichelliaceae
(horned pondweed)

Family Zosteraceae
(surf-grasses, eel-grasses)

Order Arales
(skunk cabbage, duckweeds)

Order Juncales

Family Juncaceae
(rushes)

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Order Cyperales

Family Cyperaceae
(sedges)

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Anna Roberts
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[*Carex*]

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Family Poaceae
(grasses)

Leon Pavlick
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Fax: (604) 387-5360

Anna Roberts
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2002 Grebe Dr.
Williams Lake, BC v2g 1m3
Tel: (604) 392-5000

Order Typhales
(bur-reeds, cattail)

Order Liliales
(lilies, onions, camas, fritillaries,
trilliums, irises, grass-widow)

Order Orchidales
(orchids)

"Lichens"
(crustose, foliose, squamulose,
fruticose lichens)

Irwin Brodo
Botany
Canadian Museum of Nature
P.O. Box 2334, Station D
Ottawa, ON k1p 6p4
Tel: (613) 990-6446

Trevor Goward
Edgewood Blue
Box 131
Clearwater, BC v0e 1n0
Tel: (604) 674-2553

Bruce McCune
Dept. of Botany and Plant
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2082 Cordley Hall
Oregon State University
Corvallis, OR 97331-2902
Tel: (503) 737-1741

Mike Ryan
4467 Wilkinson Rd.
Victoria, BC v8z 5c2
Tel: (604) 727-2153

Kingdom Fungi
(fungi)

Robert J. Bandoni (retired)
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Tel: (604) 822-3346
Fax: (604) 822-6089

[vesicular-arbuscular
mycorrhizae]

Shannon Berch
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Tel: (604) 952-4122
Fax: (604) 952-4119

[forest pathogens]

**Brenda Callan, Charles
Dorworth, Simon Shamoun,
Ron Wall, and Richard Winder**
Pacific Forestry Centre
Canadian Forest Service
506 West Burnside Rd.
Victoria, BC v8z 1m5
Tel: (604) 363-0600
Fax: (604) 363-0775

Division Zygomycota

Class Zygomycetes
(conjugation fungi)

Richard K. Benjamin
1500 North College Ave.
Rancho Santa Ana
Botanic Garden
Claremont, CA 91711
Tel: (909) 626-3922

Gerald L. Benny
Dept. of Plant Pathology
University of Florida
Gainesville, FL 32611-0680
Tel: (904) 392-2158
Fax: (904) 392-6532

Order Dimargaritales
(parasites of Mucorales)

Order Endogonales

Shannon Berch
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Fax: (604) 952-4119

James M. Trappe
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Fax: (503) 737-1393

Order Glomales
(vesicular-arbuscular
mycorrhizal fungi)

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West Virginia University
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Fax: (304) 293-2872

Order Entomophthorales
(plant and animal pathogens)

Richard A. Humber
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Agricultural Research Service,
Plant Protection Research
Plant, Soil, and Nutrition Lab.
Tower Rd.
Ithaca, NY 14853-0331
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Order Kickxellales

Order Mucorales

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R. Prakash and A.K. Sabhoy
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Indian Agricultural Research
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Order Zoopagales
(parasites of nematodes,
rotifers, amoebae)

Class Trichomycetes
(arthropod-gut fungi)

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Division Ascomycota
(sac fungi)

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[insect pathogens]

Doug Strongman
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Class Hemiascomycetes
(yeasts and relatives)

Cletus P. Kurtzman
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National Center for Agriculture
Utilization Research
1815 N. University St.
Peoria, IL 61604
Tel: (309) 681-6561
Fax: (309) 681-6672

Class Loculoascomycetes
(some plant and scale insect
parasites, lichen fungi)

Margaret Barr Bigelow (retired)
9475 Inverness Ave.
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Tel: (604) 656-5732

Class Plectomycetes
(wilts, fruit moulds, bee
and mammal pathogens)

Gerald L. Benny
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Gainesville, FL 32611-0680
Tel: (904) 392-2158
Fax: (904) 392-6532

Class Pyrenomycetes
(powdery mildews, cellulose
decomposers, root rots)

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(retired)
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Amy Y. Rossman
SBML, Rm. 304, Bldg. 011A
BARC-West
Beltsville, MD 20705-2350
Tel: (301) 504-5364
Fax: (301) 504-5435

Class Discomycetes
(morels and relatives)

Nancy S. Weber
2160 NW Beechwood Pl.
Corvallis, OR 97330-2709
Tel: (503) 753-9626

Order Helotiales
(plant parasites)

Order Phacidiales
(plant parasites)

Order Ostropales
(wood decomposers,
lichen fungi)

Order Pezizales
(cup fungi)

**Sean Abbot and Randolph S.
Currah**
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Keith N. Egger
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Memorial University
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Order Tuberales
(true truffles)

Daniel Durall
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Tel: (604) 762-5445

James M. Trappe
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Oregon State University
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Fax: (503) 737-1393

Class Laboulbeniomyces
(external on arthropods)

Walter Rossi
Dept. of Plant Biology
University of Florence
I-Firenze
Italy

Isabel I. Tavares
University Herbarium
University of California
Berkeley, CA 94720
Tel: (415) 642-2465

Division Basidiomycota
(club fungi)

Class Teliomycetes
(rusts, smuts, yeast-like forms)

Order Uredinales
(rusts)

Yasuyuki Hiratsuka
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5320 122nd St.
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Fax: (403) 435-7359

[tree rusts]

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Fax: (604) 363-0775

Order Ustilaginales
(smuts, yeast-like forms)

Lori M. Carris
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Washington State University
Pullman, WA 99163-6430
Tel: (509) 335-3733
Fax: (509) 335-9581

Class Phragmobasidiomycetes
(jelly fungi, dacrymyces)

Order Eutremellales
(jelly fungi, tree-ears)

Robert J. Bandoni (retired)
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Tel: (604) 822-3346
Fax: (604) 822-6089

Order Septobasidiales
(scale-insect fungi)

Order Metatremellales
(dacrymyces)

Class Hymenomycetes
(mushrooms, bracket fungi,
coral fungi)

Joseph F. Ammirati
Dept. of Botany
Box 355325
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Fax: (206) 685-1728

Robert Gilbertson
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University of Arizona
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James Ginns
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Resources Research
Agriculture-Agrifood Canada
Ottawa, ON k1a 0c6
Tel: (613) 759-1382
Fax: (613) 759-1599

Order Exobasidiales
(leaf-spots, plant galls)

Nancy Nickerson
Agriculture-Agrifood Canada
Research Station
Kentville, NS b4n 1j5
Tel: (902) 678-2171
Fax: (902) 679-2311

Order Aphylophorales
(non-gilled mushrooms)

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[polypores] **Harold H. Burdsall, Jr.**
Center for Forest
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Forest Products Lab.
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[*Corticaceae*]
[encrusting fungi] **Karen Nakasone**
Center for Forest Mycology
Research
Forest Products Lab.
One Gifford Pinchot Dr.
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Tel: (608) 231-9200

[coral and club fungi] **Andrew S. Methven**
Botany Dept.
Eastern Illinois University
Charleston, IL 61920
Tel: (217) 345-9401

[chanterelles] **Lorelei L. Norvell**
6720 NW Skyline
Portland, OR 97229
Tel: (503) 297-3296

Order Agaricales

(gilled mushrooms, boletes)

Paul Kroeger
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Harry Thiers (retired)
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Family Hygrophoraceae
(waxy caps)

Family Tricholomataceae

[*Marasmius*, *Collybia*, *Mycena*]

Dennis E. Desjardin
San Francisco State University
San Francisco, CA 94132
Tel: (415) 338-1548

[*Armillaria*] **Duncan Morrison**
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Fax: (604) 363-0775

[*Laccaria*] **Gregory Mueller**
Dept. of Botany
Field Museum of Natural
History
Chicago, IL 60605-2496
Tel: (312) 922-9410
Fax: (312) 427-7269

[*Tricholoma*] **Clark Ovrebo**
Dept. of Biology
University of Central Oklahoma
Edmond, OK 73034
Tel: (405) 341-2980
Fax: (405) 341-4964

Family Russulaceae
(russulas, milky caps)

[*Russula*] **Robert Shaffer**
Herbarium
University of Michigan
Ann Arbor, MI 48109
Tel: (313) 764-2406

[*Russula*] **Harry Thiers (retired)**
Dept. of Biology
San Francisco State College
San Francisco, CA 94132
Tel: (415) 388-7679

Family Amanitaceae
(fly agaric and relatives)

[*Amanita*] **Joseph F. Ammirati**
Dept. of Botany
Box 355325
University of Washington
Seattle, WA 98195-5325
Tel: (206) 543-1986
Fax: (206) 685-1728

[*Amanita*] **Harry Thiers (retired)**
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San Francisco State College
San Francisco, CA 94132
Tel: (415) 388-7679

[*Amanita*] **Rodham Tulloss**
P.O. Box 57
Roosevelt, NJ 08555-0557
Tel: (609) 639-3188
Fax: (609) 639-3197

Family Rhodophyllaceae
(pink-spored mushrooms)

[*Rhodocybe*, *Clitopilus*] **Timothy J. Baroni**
Dept. of Biological Sciences
P.O. Box 2000
Cortland College
State University of New York
Cortland, NY 13045
Tel: (607) 753-2725
Fax: (607) 753-5999

[*Leptonia*, *Entoloma*, *Nolanea*] **David L. Largent**
Dept. of Biology
Humboldt State University
Arcata, CA 95221
Tel: (707) 826-4841

Family Volvariaceae
(deer mushrooms)

Robert Shaffer
Herbarium
University of Michigan
Ann Arbor, MI 48109
Tel: (313) 764-2406

Family Lepiotaceae
(parasol mushrooms)

Family Agaricaceae
(meadow mushrooms)

Rick W. Kerrigan
Sylvan Spawn Laboratory
1163 Winfield Rd.
Cabot, PA 16023
Tel: (412) 352-1521

Family Paxillaceae

Family Gomphidiaceae

Ronald Petersen
Dept. of Botany
University of Tennessee
Knoxville, TN 37916-1100
Tel: (615) 974-6217
Fax: (615) 974-0978

Family Boletaceae
(boletes, slippery jacks)

Roy E. Halling
New York Botanical Garden
Bronx, NY 10458-5126
Tel: (212) 220-8613
Fax: (212) 220-6504

Harry Thiers (retired)
Dept. of Biology
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San Francisco, CA 94132
Tel: (415) 388-7679

Family Cortinariaceae

Joseph F. Ammirati
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Seattle, WA 98195-5325
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Fax: (206) 685-1728

Family Bolbitiaceae

Family Coprinaceae
(inky caps, shaggy mane)

Family Strophariaceae
(magic mushrooms and
relatives)

Paul Kroeger
395 East 40th Ave.
Vancouver, BC V5W 1M1
Tel: (604) 322-0074

"Class Gasteromycetes"

(false truffles, secotioid fungi,
puffballs, stinkhorns, bird's
nest fungi)

**Michael A. Castellano and
James M. Trappe**

Dept. of Forest Science
Oregon State University
Corvallis, OR 97331-7501
Tel: (503) 750-7382
Tel: (503) 750-7394
Fax: (503) 737-1393

Daniel Durall

Dept. of Biology
Okanagan University College
3333 College Way
Kelowna, BC V1V 1V7
Tel: (604) 762-5445

"Division Deuteromycota"

(imperfect fungi)

Randolph S. Currah

Dept. of Botany
University of Alberta
Edmonton, AB T6G 2E9
Tel: (403) 492-7010

Bryce Kendrick (retired)

8727 Lochside Dr.
Sidney, BC V8L 1M8
Tel: (604) 655-5051

Lynn Sigler

Microfungus Collection
Devonian Botanic Garden
University of Alberta
Edmonton, AB T6G 2E1
Tel: (403) 987-4811

[insect pathogens]

Doug Strongman

Dept. of Biology
Saint Mary's University
Halifax, NS B3H 3C3
Tel: (902) 420-5754
Fax: (902) 496-8104

"Class Hyphomycetes"

Order Hyphomycetales

(moulds, saprophytes, plant
parasites, nematode predators)

George Barron (retired)

Environmental Biology Dept.
University of Guelph
Guelph, ON N1G 2W1
Tel: (519) 824-4120

[*Helminthosporium*,
Bipolaris, *Alternaria*]

Richard Winder

Pacific Forestry Centre
Canadian Forest Service
506 West Burnside Rd.
Victoria, BC V8Z 1M5
Tel: (604) 363-0773
Fax: (604) 363-0775

Order Stilbellales
(wilts, insect parasites)

Keith A. Seifert
Biological Resources Division
Centre for Land and Biological
Resources Research
Agriculture-Agrifood Canada
Ottawa, ON k1a 0c6
Tel: (613) 759-1378
Fax: (613)759-1599

Order Tuberculariales
(plant parasites, saprophytes)

Order Agonomycetales
(sclerotia, bulbil fungi)

Class Coelomycetes
(plant parasites, saprophytes)

T.R. Nag Raj
Dept. of Biology
University of Waterloo
Waterloo, ON n2l 3g1
Tel: (519) 885-1211
Fax: (519) 746-0614

[*Colletotrichum*]

Richard Winder
Pacific Forestry Centre
Canadian Forest Service
506 West Burnside Rd.
Victoria, BC v8z 1m5
Tel: (604) 363-0773
Fax: (604) 363-0775

Kingdom Animalia

Phylum Porifera*
(sponges)

William C. Austin
Khoyatan Marine Lab.
4635 Alder Glen Rd., RR #1
Cowichan Bay, BC v0r 1n0
Tel: (604) 748-5020

Henry M. Reiswig
Redpath Museum
McGill University
859 Sherbrooke St. West
Montreal, PQ h3a 2k6
Tel: (514) 398-4089
Fax: (514) 398-3594

Section Radiata

Phylum Cnidaria*
(jellyfishes, sea-anemones)

Class Hydrozoa
(hydrozoans)

Dale Calder
Dept. of Invertebrate zoology
Royal Ontario Museum
100 Queen's Park
Toronto, ON m5s 1c6
Tel: (416) 586-5641
Fax: (416) 586-5863

Claudia Mills
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University of Washington
620 University Rd.
Friday Harbor, WA 98250
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Fax: (206) 543-1273

Anita B. Voss
6911 West Coast Rd.
Sooke, BC V0S 1N0
Tel: (604) 642-3520

[medusae] **Mary N. Arai**
Dept. of Biological Sciences
University of Calgary
Calgary, AB T2N 1N4
Tel: (403) 220-6379
Fax: (403) 289-9311

Class Scyphozoa
(jellyfish)

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Fax: (206) 543-1273

[medusae] **Mary N. Arai**
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Tel: (403) 220-6379
Fax: (403) 289-9311

Class Anthozoa
(sea anemones, corals)

Subclass Alcyonaria
(sea fans and relatives)

Subclass Zoantharia
(sea anemones, corals)

[sea anemones] **Daphne Fautin**
Dept. of Biological Sciences
Snow Hall
University of Kansas
Lawrence, KS 66045
Tel: (913) 864-3062

Subclass Ceriantipatharia

Order Ceriantharia
(tube anemones)

Mary N. Arai
Dept. of Biological Sciences
University of Calgary
Calgary, AB T2N 1N4
Tel: (403) 220-6379
Fax: (403) 289-9311

Phylum Ctenophora*
(comb jellies)

Claudia Mills
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620 University Rd.
Friday Harbor, WA 98250
Tel: (206) 378-2165
Fax: (206) 543-1273

Section Protostomia

Phylum Platyhelminthes
(flatworms)

Class Turbellaria*
(flatworms)

I.R. Ball
Centre for Marine Sciences
Dept. of Zoology
University of West Indies
Kingston 7, Jamaica
West Indies
Tel: (809) 927-1202
Fax: (809) 927-1640

[marine parasites]

Lesley C. Fleming
Dept. of Biology
University of New Brunswick
Fredericton, NB e3b 6e1
Tel: (506) 453-4584
Fax: (506) 453-3583

Class Trematoda*
(flukes, parasitic flatworms)

[parasitic on fish,
amphibians, reptiles]

Mary Beverly-Burton (retired)
Dept. of Zoology
University of Guelph
Guelph, ON n1g 2w1
Tel: (519) 824-4120
Fax: (519) 767-1656

[parasitic on marine
molluscs, crustaceans]

Andrew Boghen
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Université de Moncton
Moncton, NB e1a 3e9
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Fax: (506) 858-4541

[parasitic on fish, amphibians,
birds, mammals]

Michael D.B. Burt
Dept. of Biology
University of New Brunswick
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Tel: (506) 453-4692
Fax: (506) 453-4541

[parasitic on shorebirds] **Albert O. Bush**
Dept. of Zoology
Brandon University
Brandon, MB r7a 6a9
Tel: (204) 727-9787
Fax: (204) 726-4573

[parasitic on marine
and anadromous fish] **Leo Margolis**
Pacific Biological Station
Canada Dept. of Fisheries
and Oceans
Nanaimo, BC v9r 5k6
Tel: (604) 756-7032
Fax: (604) 756-7053

Subclass Monogenea

[parasitic on fish] **David K. Cone**
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Saint Mary's University
Halifax, NS b3h 3c3
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Fax: (902) 496-8104

Subclass Digenea

[parasitic on fish and
marine invertebrates] **Hilda Ching**
Women's Studies
Simon Fraser University
Burnaby, BC v5a 1s6
Tel: (604) 736-0757
Fax: (604) 291-3033

Class Cestoda (tapeworms)

[parasitic on fish,
reptiles, amphibians] **Mary Beverly-Burton (retired)**
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[parasitic on fish, amphibians,
birds, mammals] **Michael D.B. Burt**
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[parasitic on shorebirds] **Albert O. Bush**
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Fax: (204) 726-4573

[parasitic on wild mammals] **Robert L. Rausch**
Dept. of Comparative Medicine
Box 357190
University of Washington
Seattle, WA 98195-7190
Tel: (206) 658-3262
Fax: (206) 685-3006

Phylum Nemertea*
(proboscis worms)

[marine parasites] **Lesley C. Fleming**
Dept. of Biology
University of New Brunswick
Fredericton, NB e3b 6e1
Tel: (506) 453-4584
Fax: (506) 453-3583

Phylum Acanthocephala
(spiney-headed worms)

[parasitic on turdid birds] **Hilda Ching**
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Simon Fraser University
Burnaby, BC v5a 1s6
Tel: (604) 736-0757
Fax: (604) 291-3033

Phylum Mesozoa
(parasites of marine invertebrates)

Phylum Rotifera*
(rotifers)

Tom Nogrady (retired)
Dept of Biology
Queen's University
Kingston, ON k7l 3n6
Tel: (613) 545-6160
Fax: (613) 545-6617

[littoral, some open ocean] **Rama Chengalath**
Canadian Museum of Nature
P.O. Box 3443, Station D
Ottawa, ON k1p 6p4
Tel: (613) 954-4958
Fax: (613) 954-6439

[sessile forms] **Robert Wallace**
Dept. of Biology
Ripon College
300 Seward St.
Ripon, WI 54971-0248
Tel: (414) 748-8122

Phylum Gastrotricha*
(gastrotrich worms)

Phylum Kinorhyncha*
(kinorynch worms)

Phylum Nematoda*
(round worms)

[shorebird parasites] **Robert C. Anderson**
Dept. of Zoology
University of Guelph
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[marine fish and mammal parasites] **Richard J. Arthur**
Institut Maurice Lamontagne
Case Postale 1000
Mont Joli, PQ g5h 3z4
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[bird parasites] **Cheryl M. Bartlett**
Dept. of Biology
University College of
Cape Breton
P.O. Box 5300
Sydney, NS b1p 6l2
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Fax: (902) 562-0119

[plant and animal parasites] **Barry Ebsary**
Plant Protection Division
Diagnostic Services
3851 Fallow Field
P.O. Box 11300
Ottawa, ON k2h 8p9
Tel: (613) 998-9320
Fax: (613) 996-2497

[free-living in soil]
[plant parasites] **Elaine Ingham and
Russell Ingham**
Plant Pathology Dept.
Oregon State University
Corvallis, OR 97331
Tel: (503) 737-5255

[cervid parasites] **Murray Lankester**
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[parasitic on marine
and anadromous fish] **Leo Margolis**
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Canada Dept. of Fisheries
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Nanaimo, BC v9r 5k6
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[ungulate and carnivore
parasites] **Margo Pybus**
Alberta Fish and Wildlife
Division
6909-116th St.
Edmonton, AB t6h 4p2
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[forest species] **Jack Sullivan**
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Canadian Forest Service
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[plant parasites] **Thierry C. Vrain**
Agriculture-Agrifood Canada
Research Station
6660 NW Marine Dr.
Vancouver, BC v6t 1x2
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Fax: (604) 666-4994

[insect parasites] **John M. Webster**
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Fax: (604) 291-3496

Phylum Nematomorpha*
(horsehair worms)

Phylum Priapulida*
(priapulid worms)

Phylum Bryozoa*
(moss animals)

Phylum Phoronida*

(phoronids)

Phylum Entoprocta*

(entoprocts)

Phylum Brachiopoda*

(lamp shells)

Phylum Mollusca*

(clams, snails, squids)

Class Solenogastres

(shell-less wormlike molluscs)

Class Polyplacophora

(chitons)

Class Gastropoda

(snails, slugs)

Subclass Prosobranchia

(sea snails)

Dave Gillan

Royal B.C. Museum
675 Belleville St.
Victoria, BC v8v 1x4
Tel: (604) 387-3649
Fax: (604) 387-5360

André Martel

Zoology Division
Canadian Museum of Nature
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Ottawa, ON k1p 6p4
Tel: (613) 954-5987
Fax: (613) 954-6439

Subclass Opisthobranchia

(sea slugs)

Sandra Millen

Dept. of Zoology
University of British Columbia
Vancouver, BC v6t 2a9
Tel: (604) 228-2131
Fax: (604) 228-2416

Subclass Pulmonata

(land and freshwater snails, slugs)

[freshwater]

A.H. Clarke

Ecoresearch Inc.
325 East Bayview
Portland, TX 78374
Tel: (512) 643-8016

[freshwater]

Bruce Kilgour

Water Systems Analysts
14 Powell St.
Guelph, ON n1h 1t8
Tel: (519) 766-0795

[freshwater]

D.W. Taylor

P.O. Box 5532
Eugene, OR 97405

Class Scaphopoda
(tusk shells)

Class Bivalva
(bivalve molluscs)

[marine] **Dave Gillan**
Royal B.C. Museum
675 Belleville St.
Victoria, BC v8v 1x4
Tel: (604) 387-3649
Fax: (604) 387-5360

[marine larvae] **Dwight Heritage**
Pacific Biological Station
Canada Dept. of Fisheries
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Nanaimo, BC v9r 5k6
Tel: (604) 756-7023
Fax: (604) 756-7053

[marine, freshwater,
exotic freshwater] **André Martel**
Zoology Division
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Fax: (613) 954-6439

Subclass Pteriomorphia
(arks, jingle shells, mussels,
scallops, oysters)

Subclass Heterodonta
(tellens, semeles, razor clams,
gapers, cockles)

Subclass Paleoheterodonta

Order Unionoida
(freshwater mussels)

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Tel: (519) 766-0795

D.W. Taylor
P.O. Box 5532
Eugene, OR 97405

Subclass Anomalodesmata
(pandoras, thracias)

Class Cephalopoda
(squids, octapods)

Eric Hochberg
Santa Barbara Museum of
Natural History
2559 Puesta del Sol
Santa Barbara, CA 93105
Tel: (805) 682-4711, ext. 318

Phylum Pogonophora*
(beard worms)

Phylum Sipuncula*
(sipunculid worms)

Phylum Echiura*
(echiurid worms)

Phylum Annelida*
(segmented worms)

Class Polychaeta
(sandworms, tubeworms)

Sheila Byers
Dept. of Invertebrate Zoology
Royal Ontario Museum
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Toronto, ON M5S 2C6
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Howard R. Jones
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97330-9721
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Rob Waters
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Striplin Environmental
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6541 Sexton Dr., NW
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Olympia, WA 98502
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Fax: (206) 866-4816

Class Oligochaeta
(earthworms and relatives)

Kathryn Coates
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Canadian Forest Service
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Fax: (604) 363-0775

Dorothy McKey-Fender
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McMinnville, OR 97128

John W. Reynolds
Resource Technology Division
Sir Sandford Fleming College
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Lindsay, ON k9v 5e6
Tel: (705) 324-9144
Fax: (705) 878-9312

[freshwater] **R.O. Brinkhurst**
Aquatic Resources Center
P.O. Box 680818
Franklin, TN 37068-0818
Tel: (615) 790-0172

Class Hirudinoidea
(leeches)

R.W. Davies
Dept. of Biology
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Tel: (403) 220-5260
Fax: (403) 289-9311

Jacqueline Madill
Canadian Museum of Nature
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Ottawa, ON k1p 6p4
Tel: (613) 954-2585
Fax: (613) 954-6439

Phylum Tardigrada
(water bears)

Dee Dee Kathman
Aquatic Resources Center
P.O. Box 680818
Franklin, TN 37068-0818
Tel: (615) 790-0172

Phylum Arthropoda
(spiders, mites, centipedes,
crustaceans, insects)

Subphylum Chelicerata
(chelicerate arthropods)

Class Pycnogonida*
(sea spiders)

Class Arachnida
(spiders, mites, scorpions)

Order Solpugida
(sun spiders)

Donald J. Buckle
620 Albert Ave.
Saskatoon, SK S7N 1G7
Tel: (306) 652-8803

Robert G. Holmberg
Dept. of Sciences
Athabasca University
P.O. Box 10 000
Athabasca, AB T0G 2R0
Tel: (403) 675-6226
Fax: (403) 675-6186

Order Scorpionida
(scorpions)

S.C. Williams
Dept. of Biology
San Francisco State University
San Francisco, CA 94132
Tel: (415) 338-1695

Order Pseudoscorpionida
(pseudoscorpions)

W.B. Muchmore
Dept. of Biology
University of Rochester
Rochester, NY 14627
Tel: (716) 275-3835

Mike Sharkey
Biological Resources Division
Centre for Land and Biological
Resources Research
Agriculture-Agrifood Canada
Ottawa, ON K1A 0C6
Tel: (613) 759-1777
Fax: (613) 759-1927

Order Aranaeae
(spiders)

Robb G. Bennett
Silviculture Branch
B.C. Ministry of Forests
RR #3
7380 Puckle Rd.
Saanichton, BC V8M 1W4
Tel: (604) 652-7613
Fax: (604) 652-4204

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Rod Crawford
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Seattle, WA 98195-3010
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**Charles Dondale (retired)
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Rick C. West
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675 Belleville St.
Victoria, BC V8V 1X4
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Fax: (604) 387-5360

Order Opiliones
(harvestmen)

Philip D. Bragg
4378 West 14th Ave.
Vancouver, BC V6R 2Y1
Tel: (604) 224-3897

Donald J. Buckle
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Athabasca, AB T0G 2R0
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Fax: (403) 675-6186

Order Parasitiformes
(predatory mites, ticks)

Suborder Gamasida
(predatory mites)

Evert Lindquist
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Centre for Land and Biological
Resources Research
Agriculture-Agrifood Canada
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[phytoseiids] **Donald A. Chant**
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Fax: (416) 978-8532

[macrochelids] **Gerald W. Krantz**
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Oregon State University
Corvallis, OR 97331-2907
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Fax: (503) 737-3643

Suborder Ixodida
(ticks)

James E. Keirans
Institute of Arthropodology
and Parasitology
Georgia Southern University
Box 8056
Statesboro, GA 30460-8056
Tel: (912) 681-5564

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Fax: (613) 759-1927

[parasitic on cervids] **William M. Samuel**
Dept. of Zoology
University of Alberta
Edmonton, AB T6G 2E9
Tel: (403) 492-2360
Fax: (403) 492-7033

Order Acariformes
(mites)

Suborder Prostigmata

[feather mites] **Warren T. Atyeo**
Dept. of Entomology
University of Georgia
Athens, GA 30602
Tel: (706) 542-2280

[cheyletoids; Endeostigmata:
deep sand mites] **John B. Kethley**
Division of Insects
Field Museum of Natural
History
Roosevelt Rd.
Chicago, IL 60605
Tel: (312) 922-9410, ext. 262
Fax: (312) 427-7269

[tetranychoids, tarsonemoids]
[hydrachnoids: water mites;
eriophyoids: gall mites] **Evert Lindquist and
Ian M. Smith**
Biological Resources Division
Centre for Land and Biological
Resources Research
Agriculture-Agrifood Canada
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Tel: (613) 759-1801
Fax: (613) 759-1927

Suborder Oribatida

Valerie Behan-Pelletier
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Fax: (613) 759-1927

Suborder Astigmata

Gerald W. Krantz
Dept. of Entomology
2046 Cordley Hall
Oregon State University
Corvallis, OR 97331-2907
Tel: (503) 737-4733
Fax: (503) 737-3643

Valin G. Marshall
Pacific Forestry Centre
Canadian Forest Service
506 West Burnside Rd
Victoria, BC V8Z 1M5
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Fax: (604) 363-0775

[free-living] **Valerie Behan-Pelletier**
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Fax: (613) 995-1823

[free living] **Norman J. Fashing**
Dept. of Biology
College of William and Mary
Williamsburg, VA 23187
Tel: (804) 221-2221

[nest mites, parasites
of insects and vertebrates] **Barry OConnor**
Museum of Zoology
University of Michigan
Ann Arbor, MI 48109-1079
Tel: (313) 763-4354

Subphylum Uniramia
(ostracods, crustaceans,
centipedes, insects)

Class Ostracoda*

Subclass Myodocopa

Subclass Podocopa

Order Podocopida
(freshwater ostracods)

Gordon Green
Royal B.C. Museum
675 Belleville Street
Victoria, BC v8v 1x4
Tel: (604) 387-6513
Fax: (604) 387-5360

Order Platycopida

Order Metacopida

Class Crustacea*

Subclass Branchiopoda

Superorder Diplostraca
(cladocera, clam shrimp)

[cladocera] **Rama Chengalath**
Zoological Division
Canadian Museum of Nature
P.O. Box 3443, Station D
Ottawa, ON k1p 6p4
Tel: (613) 954-4958
Fax: (613) 954-6439

[cladocera] **Gordon Green**
Royal B.C. Museum
675 Belleville Street
Victoria, BC v8v 1x4
Tel: (604) 387-6513
Fax: (604) 387-5360

Superorder Sarsostraca

Order Anostraca
(fairy shrimp)

Subclass Copepoda
(copepods)

Jeff Cordell
Fisheries Research Institute
Box 357980
University of Washington
Seattle, WA 98195-7980
Tel: (206) 543-7532

C.-t. Shih
Zoological Division
Canadian Museum of Nature
P.O. Box 3443, Station D
Ottawa, ON k1p 6p4
Tel: (613) 954-4955
Fax: (613) 954-7675

Order Calanoida
(calanoid copepods)

Gail Sandercock
B.C. Ministry of Environment,
Lands and Parks
2204 Main Mall
Vancouver, BC v6t 1z4
Tel: (604) 822-3693

Order Harpacticoida
(harpacticoid copepods)

Order Cyclopoida
(cyclopoid copepods)

Order Notodelphyoida
(in sedentary tunicates)

Order Monstrilloida
(parasites of marine invertebrates)

Order Caligoida
(parasites of fishes)

Superorder Calmanostraca

Order Notostraca
(tadpole shrimp)

Subclass Cirripedia
(barnacles)

Subclass Malacostraca

Superorder Peracarida
(isopods, amphipods)

Order Mysidacea
(shrimplike, epibenthic
or pelagic)

Order Cumacea
(tadpole-like, burrowers)

Jeff Cordell
Fisheries Research Institute
Box 357980
University of Washington
Seattle, WA 98195-7980
Tel: (206) 543-7532

Order Tanaidacea
(cylindrical, benthic)

Order Isopoda
(sea slaters, wood lice)

Jeff Cordell
Fisheries Research Institute
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University of Washington
Seattle, WA 98195-7980
Tel: (206) 543-7532

[subterranean] **J.R. Holsinger**
Dept. Of Biological Sciences
Old Dominion University
Norfolk, VA 23529-0266
Tel: (804) 683-3595

Order Amphipoda
(scuds, beach fleas)

Jeff Cordell
Fisheries Research Institute
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University of Washington
Seattle, WA 98195-7980
Tel: (206) 543-7532

[free-living and parasitic] **Edward L. Bousfield (retired)**
611-548 Dallas Rd.
Victoria, BC v8v 1b5
Tel: (604) 380-3787

Suborder Gammaridea
(gammarids)

Craig Staude
Friday Harbor Labs
University of Washington
620 University Rd.
Friday Harbor, WA 98250
Tel: (206) 378-2165
Fax: (206) 543-1273

Suborder Hyperiidea
(marine, pelagic)

C.-t. Shih
Zoological Division
Canadian Museum of Nature
P.O. Box 3443, Station D
Ottawa, ON k1p 6p4
Tel: (613) 954-4955
Fax: (613) 954-7675

Suborder Caprellidea
(skeleton shrimp, whale lice)

Diana R. Laubitz (retired)
Zoological Division
Canadian Museum of Nature
P.O. Box 3443, Station D
Ottawa, ON K1P 6P4
Tel: (613) 954-4959
Fax: (613) 954-6439

Superorder Eucarida
(crabs, true shrimp, krill)

Order Euphausiacea
(krill)

Patricia L. Summers
Dept. of Biology
University of Victoria
P.O. Box 1700
Victoria, BC V8W 2Y2
Tel: (604) 721-7123
Fax: (604) 721-7120

Order Amphionidacea
(pelagic)

Order Decapoda
(crabs, true shrimp,
lobsters, etc.)

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675 Belleville St.
Victoria, BC V8V 1X4
Tel: (604) 387-6513
Fax: (604) 387-5360

Horton H. Hobbs, Jr.
Dept. of Invertebrate Zoology
U.S. National Museum
Washington, DC 20560
Tel: (202) 357-4679

Class Chilopoda
(centipedes)

Rod Crawford
Burke Museum
Box 353010
University of Washington
Seattle, WA 98195-3010
Tel: (206) 543-4486

Class Diplopoda
(millipedes)

Rod Crawford
Burke Museum
Box 353010
University of Washington
Seattle, WA 98195-3010
Tel: (206) 543-4486

Roland M. Shelley
North Carolina State Museum
of Natural Sciences
Bicentennial Plaza
P.O. Box 27647
Raleigh, NC 27611
Tel: (919) 733-7450
Fax: (919) 733-1573

Class Pauropoda
(pauropods)

Ulf Scheller
Lundsberg
S-68800 Storfors, Sweden

Class Symphyla
(symphylids)

Ulf Scheller
Lundsberg
S-68800 Storfors, Sweden

Superclass Hexapoda

Class Protura
(proturans)

Josef Rusek
Entomologický ústav CSAV
Vinická 7
128 00 Praha 2
Czech Republic

Al D. Tomlin
Agriculture-Agrifood Canada
Research Station
1400 Western Rd.
London, ON N6G 2V4
Tel: (519) 645-4452
Fax: (519) 645-5476

Class Collembola
(springtails)

Peter F. Bellinger
Dept. of Biology
California State University
18111 Nordhoff Street-BIOL
Northridge, CA 91330
Tel: (818) 885-4980
Fax: (818) 885-2034

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Fax: (604) 363-0775

Class Insecta
(insects)

Order Microcoryphia
(jumping bristletails)

H. Sturm
Universität Hildesheim
Marienburger Platz 22
D-3200 Hildesheim
Germany
Tel: (49) 5121-883-0

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Order Thysanura
(silverfish)

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Order Ephemeroptera*
(mayflies)

Norman Anderson
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Fax: (503) 737-3643

George F. Edmunds, Jr.
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Peter Harper
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Fax: (306) 966-4461

Michael Wigle
P.O. Box 643
Bella Coola, BC V0T 1C0
Tel: (604) 982-2643

Order Odonata*
(dragonflies, damselflies)

Robert A. Cannings
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Victoria, BC V8V 1X4
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Syd G. Cannings
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Sid W. Dunkle
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Gord Hutchings
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Tel: (604) 656-9888

Dennis Paulson
Museum of Natural History
University of Puget Sound
Tacoma, WA 98416
Tel: (206) 756-3798

Order Orthoptera
(grasshoppers, crickets)

Vernon R. Vickery (retired)
Lyman Entomological Museum
McGill University
MacDonald College
21111 Lakeshore Rd.
Ste. Anne de Bellevue, PQ
H9X 3V9
Tel: (514) 398-7915

Order Blattaria
(cockroaches)

Arthur Appel
Dept. of Entomology
Auburn University
Auburn, AL 36849-4021
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Robert A. Cannings
Royal B.C. Museum
675 Belleville St.
Victoria, BC v8v 1x4
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Fax: (604) 387-5360

Order Mantodea
(mantids)

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Fax: (604) 387-5360

Order Grylloblattaria
(snow crickets, ice bugs)

Gordon Pritchard
Dept. of Biological Sciences
University of Calgary
Calgary, AB t2n 1n4
Tel: (403) 220-6791

Order Isoptera
(termites)

Robert A. Cannings
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Fax: (604) 387-5360

Order Dermaptera
(earwigs)

Robert J. Lamb
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195 Defoe Rd.
Winnipeg, MB r3s 2m9
Tel: (204) 983-1458
Fax: (204) 983-4604

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Order Plecoptera*
(stoneflies)

Robert Baumann
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Ken Stewart
Dept. of Biological Sciences
University of North Texas
P.O. Box 5218
Denton, TX 76203-0218
Tel: (817) 565-2011
Fax: (817) 565-3821

Order Psocoptera
(booklice, woodlice)

Edward L. Mockford
Dept. of Biological Sciences
Illinois State University
Normal, IL 61761
Tel: (309) 438-2666

"Order Mallophaga"
(chewing lice)

[on birds]

Michael Stock
Grant MacEwan Community
College
Millwoods Campus
7319-29 Ave.
Edmonton, AB t6k 2p1
Tel: (403) 450-4665
Fax: (403) 450-4625

Order Anoplura
(sucking lice)

William M. Samuel
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Order Thysanoptera
(thrips)

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Bruce S. Heming
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Fax: (403) 492-1767

Order Hemiptera
(true bugs)

Thomas J. Henry
Systematic Entomology Lab.
U.S. Dept. of Agriculture
Agricultural Research Service
c/o National Museum of
Natural History
Smithsonian Institute
Washington, DC 20560
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American Museum of
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Geoff G.E. Scudder
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University of British Columbia
Vancouver, BC v6t 1z4
Tel: (604) 822-3682
Fax: (604) 822-2416

[mirids: plant bugs]

Michael D. Schwartz
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Fax: (613) 759-1927

Order Homoptera
(cicadas, leaf hoppers,
scales, aphids)

Suborder Auchenorrhyncha
(leafhoppers, cicadas,
planthoppers, spittle bugs)

K.G. Andy Hamilton
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Agriculture-Agrifood Canada
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Tel: (613) 759-1835
Fax: (613) 759-1927

Superfamily Fulgoroidea
(planthoppers)

Stephen W. Wilson
Biology Dept.
Central Missouri State
University
Warrensburg, MO 64093
Tel: (816) 543-4933

Superfamily Cercopoidea
(spittle bugs)

Superfamily Cicadoidea
(cicadas)

Superfamily Cicadelloidea
(leaf hoppers)

Superfamily Membracoidea
(tree hoppers)

Suborder Sternorrhyncha
(whiteflies, aphids, scales,
mealybugs)

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Centre for Land and Biological
Resources Research
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Ottawa, ON k1a 0c6
Tel: (613) 759-1774
Fax: (613) 759-1927

Superfamily Psylloidea
(psyllids)

Superfamily Aleyrodoidea
(whiteflies)

Avas B. Hamon
Division of Plant Industry
Florida Dept. of Agriculture
and Consumer Services
P.O. Box 1269
Gainesville, FL 32602
Tel: (904) 372-3505

Superfamily Aphidoidea

Family Aphididae
(aphids)

Family Adelgidae
(woolly aphids)

Family Phylloxeridae
(phylloxera)

Carol Maier
2079 Quimper St.
Victoria, BC v8s 2h7
Tel: (604) 598-4543

Superfamily Coccoidea
(scale insects, mealy bugs)

Avas B. Hamon
Division of Plant Industry
Florida Dept. of Agriculture
and Consumer Services
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Tel: (904) 372-3505

Michael L. Williams
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Auburn University
Auburn, AL 36849-4021
Tel: (205) 826-5006

Order Megaloptera*
(dobsonflies, alderflies)

Robert A. Cannings
Royal B.C. Museum
675 Belleville St.
Victoria, BC v8v 1x4
Tel: (604) 356-8242
Fax: (604) 387-5360

Order Raphidioptera
(snakeflies)

Ulricke Aspöck
Zoologische Sammlung
Naturhistorisches Museum
Burgring 7
1010 Vienna, Austria
Tel: (43) 1-934541

Robert A. Cannings
Royal B.C. Museum
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Victoria, BC v8v 1x4
Tel: (604) 356-8242
Fax: (604) 387-5360

Order Neuroptera
(lacewings, antlions)

Family Coniopterygidae
(dusty-wings)

M. Meinander
Zoological Museum
University of Helsinki
P.-Rautatiekatu 13
SF-00100 Helsinki 10
Finland

Family Chrysopidae
(green lacewings)

John A. Garland
1011 Carling Ave.
Ottawa, ON k1y 4e7
Tel: (613) 998-9320
Fax: (613) 995-6833

Catherine A. Tauber
Dept. of Entomology
Cornell University
Ithaca, NY 14853-0999
Tel: (607) 255-4450
Fax: (607) 255-0939

Family Hemerobiidae
(brown lacewings)

J. Klimaszewski
Land Care Research
Private Bag 92170
Auckland, New Zealand
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Fax: 64 9 849-7093

John Oswald
Systematic Entomology Lab.
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Agricultural Research Service
c/o National Museum of
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Smithsonian Institute
Washington, DC 20560
Tel: (202) 357-1856
Fax: (202) 786-9422

Family Myrmeleontidae
(antlions, doodlebugs)

Lionel A. Stange
Division of Plant Industry
Florida Dept. of Agriculture
and Consumer Services
P.O. Box 1269
Gainesville, FL 32602
Tel: (904) 372-3505

Other small families:	<p>Robert A. Cannings Royal B.C. Museum 675 Belleville St. Victoria, BC v8v 1x4 Tel: (604) 356-8242 Fax: (604) 387-5360</p>	
Order Coleoptera ¹ (beetles)	<p>Yves Bousquet, Don E. Bright, Anthony Davies, and Laurent LeSage Biological Resources Division Centre for Land and Biological Resources Research Agriculture-Agrifood Canada Ottawa, ON k1a 0c6 Tel: (613) 759-1809 Fax: (613) 759-1927</p>	<p>Natalia Vandenberg Systematic Entomology Lab. U.S. Dept. of Agriculture Agricultural Research Service c/o National Museum of Natural History Smithsonian Institute Washington, DC 20560 Tel: (202) 382-1794 Fax: (202) 786-9422</p>
	[immatures]	<p>John E. Lawrence Division of Entomology CSIRO P.O. Box 1700 Canberra, ACT 2601 Australia</p>
Suborder Adephaga		
Family Carabidae (ground beetles)	<p>George E. Ball (retired) Dept. of Entomology University of Alberta Edmonton, AB t6g 2e3 Tel: (403) 492-4652 Fax: (403) 492-1767</p>	<p>David H. Kavanaugh California Academy of Sciences Golden Gate Park San Francisco, CA 94118 Tel: (415) 750-7239 Fax: (415) 750-4346</p>
Family Haliplidae (crawling water beetles)	<p>Robert E. Roughley Dept. of Entomology University of Manitoba Winnipeg, MB r3t 2n2 Tel: (204) 474-6023 Fax: (204) 275-0402</p>	
Family Dytiscidae (predaceous diving beetles)	<p>David J. Larson Dept. of Biology Memorial University St. John's, NF a1b 3x9 Tel: (709) 737-7498 Fax: (709) 737-3018</p>	<p>Robert E. Roughley Dept. of Entomology University of Manitoba Winnipeg, MB r3t 2n2 Tel: (204) 474-6023 Fax: (204) 275-0402</p>

¹ Families represented by fewer than 10 species in British Columbia are excluded from the list.

Family Gyrinidae
(whirligig beetles)

F.M. Atton
412 Leslie Ave.
Saskatoon, SK S7H 2Z1
Tel: (306) 374-4579

Robert E. Roughley
Dept. of Entomology
University of Manitoba
Winnipeg, MB R3T 2N2
Tel: (204) 474-6023
Fax: (204) 275-0402

Suborder Polyphaga
Superfamily Staphylinoidea

Family Hydraenidae
(minute moss beetles)

Robert E. Roughley
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University of Manitoba
Winnipeg, MB R3T 2N2
Tel: (204) 474-6023
Fax: (204) 275-0402

Family Ptiliidae
(feather-winged beetles)

J. Milton Campbell (retired)
c/o 420 Everetts Lane
Hopkinsville, KY 42240
Tel: (502) 885-6393

Clarence D. Johnson
Dept. of Biological Sciences
P.O. Box 5640
Northern Arizona University
Flagstaff, AZ 86011-5640
Tel: (602) 523-2505
Fax: (602) 523-2626

Mikael Sörensson
Zoological Institute
Dept. of Systematics
University of Lund
Helgonavägen 3
S-223-62 Lund
Sweden

Family Leiodidae
(small scavenger beetles)

Alfred F. Newton, Jr.
Field Museum of Natural
History
Roosevelt Rd.
Chicago, IL 60605
Tel: (312) 922-9410
Fax: (312) 427-7269

Stewart B. Peck
Dept. of Biology
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Ottawa, ON K1S 5B6
Tel: (613) 788-2600
Fax: (613) 788-4497

Family Scydmaenidae
(antlike stone beetles)

Anthony Davies
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Fax: (613) 759-1927

Family Silphidae
(carrion beetles)

Robert S. Anderson
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Stewart B. Peck
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Fax: (613) 788-4497

Family Staphylinidae
(rove beetles)

J. Steve Ashe
Snow Entomological Museum
University of Kansas
Lawrence, KS 66045
Tel: (913) 864-3065

J. Milton Campbell (retired)
c/o 420 Everetts Lane
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**Anthony Davies and Ales
Smetana**
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[intertidal]

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Fax: (604) 721-7120

Family Pselaphidae
(short-winged mold
beetles)

Donald S. Chandler
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Durham, NH 03824
Tel: (603) 862-1735

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Centre for Land and Biological
Resources Research
Agriculture-Agrifood Canada
Ottawa, ON K1A 0C6
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Superfamily Hydrophiloidea

Family Hydrophilidae
(water scavenger beetles)

Robert E. Roughley
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Fax: (204) 275-0402

Family Histeridae
(hister beetles)

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Superfamily Eucinetoidae

Family Scirtidae
(marsh beetles)

J. Milton Campbell (retired)
c/o 420 Everetts Lane
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Tel: (502) 885-6393

Daniel K. Young
Dept. of Entomology
237 Russell Lab.
University of Wisconsin
1630 Linden Dr.
Madison, WI 53706
Tel: (608) 262-2078
Fax: (608) 262-3322

Superfamily Scarabaeoidea

Family Scarabaeidae
(scarab beetles)

Bruce Gill
1011 Carling Ave.
Ottawa, ON K1Y 4E7
Tel: (613) 729-5916
Fax: (613) 995-6833

Henry F. Howden (retired)
23 Trillium Ave.
Ottawa, ON K2E 5M8
Tel: (613) 224-3717

Superfamily Byrrhoidea

Family Byrrhidae
(pill beetles)

Paul J. Johnson
Dept. of Entomology
University of Wisconsin
Madison, WI 53706
Tel: (608) 262-2760

Superfamily Buprestoidea

Family Buprestidae
(metallic wood-boring
beetles)

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Davies**
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Superfamily Dryopoidea

Harley P. Brown (retired)
Dept. of Zoology
University of Oklahoma
Norman, OK 73019
Tel: (405) 321-8593

Harry G. Nelson
Field Museum of Natural
History
Roosevelt Rd.
Chicago, IL 60605
Tel: (312) 922-9410
Fax: (312) 922-2572

Family Elmidae
(riffle beetles)

Laurent LeSage
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Tel: (613) 759-1770
Fax: (613) 759-1927

Superfamily Elateroidea

Family Elateridae
(click beetles)

**Ed Becker (retired) and Yves
Bousquet**
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Family Eucnemidae
(false click beetles)

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Superfamily Cantharoidea

Family Cantharidae
(soldier beetles)

Superfamily Dermestoidea

Family Dermestidae
(carpet beetles)

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Superfamily Bostrichoidea

Family Anobiidae
(deathwatch beetles)

Richard E. White
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Family Ptinidae
(spider beetles)

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Superfamily Cleroidea

Family Trogossitidae
(bark-gnawing beetles)

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Family Cleridae
(checkered beetles)

William V. Barr (retired)
Division of Entomology
University of Idaho
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Tel: (208) 885-7544

Serge Laplante
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Family Melyridae
(soft-winged flower
beetles)

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Fax: (613) 759-1927

Superfamily Cucujoidea

Family Nitidulidae
(sap beetles)

Walter A. Connell (retired)
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Newark, DE 19711
Tel: (302) 368-4022

Roger N. Williams
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Ohio State University
Wooster, OH 44691
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Fax: (216) 263-3686

Family Rhizophagidae
(rhizophagid beetles)

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Family Cucujidae
(flat bark beetles)

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Family Cryptophagidae
(silken fungus beetles)

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Family Coccinellidae
(ladybird beetles)

**Robert D. Gordon and Natalia
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Agricultural Research Service
c/o National Museum of
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Smithsonian Institute
Washington, DC 20560
Tel: (202) 382-1792
Fax: (202) 786-9422

Family Lathridiidae
(minute brown scavenger
beetles)

Fred G. Andrews
Analysis and Identification
California Dept. of Food
and Agriculture
Sacramento, CA 95814
Tel: (916) 322-5913

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Superfamily Tenebrionoidea

Family Ciidae
(minute tree-fungus beetles)

Family Melandryidae
(false darkling beetles)

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Family Mordellidae
(tumbling flower beetles)

Family Colydiidae
(cylindrical bark beetles)

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Family Tenebrionidae
(darking beetles)

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Charles A. Triplehorn
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Fax: (614) 292-2180

Family Meloidae
(blister beetles)

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John D. Pinto
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Family Oedemeridae
(false blister beetles)

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Family Anthicidae
(ant-like flower beetles)

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Family Scaptiidae
(scaptiid beetles)

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Superfamily Chrysomeloidea

Family Cerambycidae
(longhorned beetles)

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Family Bruchidae
(seed beetles)

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Joel G. Kingsolver
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University of Washington
Seattle, WA 98195-1800
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Family Chrysomelidae
(leaf beetles)

David G. Furth
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Fax: (617) 495-5667

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Yakima Agricultural Research
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[Clytrinae] **Andrew R. Moldenke**
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[Cassidinae] **Edward G. Riley**
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Texas A. & M. University
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Tel: (409) 845-9711

[Eumolpinae] **William T. Schultz**
6161 Sharon Woods Blvd.
Columbus, OH 43229
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Superfamily Curculionoidea

Family Apionidae
(pear-shaped weevils)

Family Curculionidae
(weevils, snout beetles)

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Fax: (613) 954-6439

Anne T. Howden
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Carleton University
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Tel: (613) 788-3873
Fax: (613) 788-4497

Family Scolytidae
(bark beetles)

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Order Strepsiptera
(twisted-wing parasites)

J. Milton Campbell (retired)
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Hopkinsville, KY 42240
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Order Mecoptera
(scorpionflies)

George W. Byers (retired)
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University of Kansas
Lawrence, KS 66045-2106
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Fax: (913) 864-5321

Syd G. Cannings
Conservation Data Centre
B.C. Ministry of Environment,
Lands and Parks
780 Blanshard St.
Victoria, BC v8v 1x4
Tel: (604) 387-6250
Fax: (604) 387-0239

Order Diptera²

(true flies)

Suborder Nematocera

Family Tipulidae

(crane flies)

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Fax: (913) 864-5321

Harold C.W. Walther

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[Cylindrotominae]

Fenja Brodo

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[intertidal]

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Family Blephariceridae

(net-winged midges)

Family Deuterophlebiidae

(mountain midges)

Greg Courtney

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Family Bibionidae

(march flies)

Family Mycetophilidae

(fungus gnats)

J. Richard Vockeroth (retired)

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² Families represented by 10 species or less in British Columbia are excluded, unless an expert is available to identify them.

Family Sciaridae
(dark-winged fungus gnats)

Family Cecidomyiidae
(gall midges)

Art Borkent
2330-70 St. SE
Salmon Arm, BC v1e 4m3
Tel: (604) 833-0931

Hans Roskam
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Family Psychodidae
(moth flies)

Family Trichoceridae
(winter crane flies)

Family Scatopsidae
(minute black scavenger flies)

Family Dixidae
(dixid midges)

Family Culicidae*
(mosquitoes)

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Family Simuliidae*
(black flies)

Doug C. Currie
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Family Ceratopogonidae*
(punkies, no-see-ums)

Art Borkent
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Family Chironomidae*
(midges)

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Suborder Brachycera

Family Tabanidae
(deerflies, horseflies)

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Family Rhagionidae
(snipe flies)

Family Stratiomyidae
(soldier flies)

Family Therevidae
(stiletto flies)

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Champagne, IL 61820
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Fax: (207) 333-4949

Family Mydidae
(mydas flies)

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Family Apioceridae
(flower-loving flies)

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Fax: (604) 387-5360

Family Asilidae
(robber flies)

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Eric M. Fisher
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Agriculture
Plant Pest Diagnostic Center
3294 Meadowview Rd.
Sacramento, CA 95832-1448
Tel: (916) 654-1319

Family Acroceridae
(small-headed flies)

Family Bombyliidae
(bee flies)

Neal L. Evenhuis
Bernice P. Bishop Museum
P.O. Box 19000-A
Honolulu, HI 96817
Tel: (808) 848-4138
Fax: (808) 841-8968

Jack C. Hall (retired)
University of California
Riverside, CA 92521
Tel: (909) 787-3231
Fax: (909) 787-3086

Family Empididae
(dance flies)

Jeff Cumming
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Fax: (613) 759-1927

Family Dolichopodidae
(long-legged flies)

J. Richard Vockeroth (retired)
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Family Platypezidae
(flat-footed flies)

Family Phoridae
(humpbacked flies)

Brian Brown
Entomology Section
Natural History Museum of
Los Angeles County
900 Exposition Blvd.
Los Angeles, CA 90007
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Family Syrphidae
(hover flies)

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Family Pipunculidae
(big-headed flies)

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Tel: (902) 662-3390

Jeff Skevington
General Mail
P.O. Box 267, RR #2
Zurich, ON nom 2t0
Tel: (613) 236-4258

Family Conopidae
(thick-headed flies)

Family Micropezidae
(stilt-legged flies)

Family Psilidae
(rust flies)

Family Lonchaeidae
(lonchaeid flies)

Family Otitidae
(picture-winged flies)

Family Tephritidae
(fruit flies, gall flies)

**Richard Foote (retired) and
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[plant gallers] **Richard D. Goeden**
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Family Piophilidae
(skipper flies)

Family Agromyzidae
(leaf miner flies)

Family Milichiidae
(milichiid flies)

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Fax: (416) 586-5863

Family Sciomyzidae
(marsh flies)

Family Sepsidae
(black scavenger flies)

Family Lauxaniidae
(lauxaniid flies)

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Family Chamaemyiidae
(chamaemyiid flies)

Family Heleomyzidae
(heleomyzid flies)

Family Sphaeroceridae
(small dung flies)

Steve Marshall
Environmental Biology Dept.
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Guelph, ON n1g 2w1
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Fax: (519) 837-0422

Family Drosophilidae
(pomace flies)

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New York, NY 10024-5192
Tel: (212) 769-5615

Marshall R. Wheeler
Dept. of Zoology
University of Texas
Austin, TX 78712
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Family Ephydriidae
(shore flies)

Wayne N. Mathis
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Family Chloropidae
(frit flies)

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Fax: (514) 398-7990

Family Scatophagidae
(dung flies, leaf miners)

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Family Anthomyiidae
(root-maggot flies)

G.C. Don Griffiths
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Fax: (403) 492-1767

Family Muscidae
(house flies and relatives)

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Fax: (613) 759-1927

Family Calliphoridae
(blow flies, greenbottles)

Guy E. Shewell (retired)
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Family Oestridae
(bot and warble flies)

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Family Sarcophagidae
(flesh flies)

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Family Tachinidae
(flies parasitic on insects)

**D. Monty Wood (retired),
James O'Hara, and Bruce
Cooper**
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Order Siphonaptera
(fleas)

Terry D. Galloway
Dept. of Entomology
University of Manitoba
Winnipeg, MB r3t 2n2
Tel: (204) 474-6024
Fax: (204) 275-0402

Order Lepidoptera
(moths, butterflies)

Cris S. Guppy
B.C. Ministry of Environment,
Lands and Parks
322 Johnston Ave.
Quesnel, BC v2J 3m5
Tel: (604) 992-4490

J. Don Lafontaine
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Centre for Land and Biological
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Agriculture-Agrifood Canada
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Fax: (613) 759-1927

Jon H. Shepard
RR #2, Site 22, Comp. 44
Nelson, BC v1l 5p5
Tel: (604) 352-3028

Order Trichoptera*
(caddisflies)

**Doug C. Currie and Glenn B.
Wiggins (retired)**
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Royal Ontario Museum
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Toronto, ON m5s 2c6
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University of Alberta
Edmonton, AB t6g 2e3
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Fax: (403) 492-1767

Order Hymenoptera
(sawflies, bees, wasps, ants)

Suborder Symphyta
(sawflies)

Henri Goulet
Biological Resources Division
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David R. Smith
Systematic Entomology Lab.
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Agricultural Research Service
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Smithsonian Institute
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Tel: (202) 382-1783
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Suborder Apocryta
(bees, wasps, ants)

Superfamily Chrysoidea

Albert T. Finnamore
Provincial Museum of Alberta
12845-102nd Ave.
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Family Bethylinidae
(bethylinids)

Family Chrysididae
(cuckoo wasps)

Lynn Kimsey
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Tel: (916) 752-0475
Fax: (916) 752-1537

Family Dryinidae
(leaf-hopper parasites)

Lubomir Masner
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Family Embolemidae
(Homoptera parasites)

Superfamily Vespoidea
(paper wasps, hornets,
velvet ants, ants)

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Fax: (403) 454-6629

Family Tiphidae
(parasites of beetle larvae)

Family Sapygidae
(parasites of bee larvae)

Family Mutillidae
(velvet ants)

Family Pompilidae
(spider hawks)

Family Bradynobaenidae
(sun-spider parasites)

Family Scolidae
(parasites of scarab
beetle larvae)

Family Vespidae
(paper wasps, hornets,
potter wasps)

[*Vespula*, *Dolichovespula*]

Gord Hutchings
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Saturna Island, BC V8M 2Y0
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Tel: (604) 656-9888

Family Formicidae
(ants)

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Fax: (204) 942-3679

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Phil Ward
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Superfamily Apoidea

Series Spheciformes

(digger wasps, mud daubers,
thread-waisted wasps)

Albert T. Finnamore
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Series Apiformes

(bees)

Wallace E. LaBerge
Natural Resources Bldg.
607 East Peabody Dr.
Champaign, IL 61820
Tel: (217) 333-6846
Fax: (217) 333-4949

Charles D. Michener (retired)
and Bryan N. Danforth
Snow Entomological Museum
University of Kansas
Lawrence, KS 66045
Tel: (913) 864-4610
Fax: (913) 864-5321

Family Colletidae

(yellow-faced bees,
plasterer bees)

Louise Dumouchel
Biological Resources Division
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Resources Research
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Fax: (613) 759-1927

Family Andrenidae

(andrenid bees)

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Family Halictidae

(sweat bees)

Lawrence Packer
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Tel: (416) 736-5243

Family Melittidae

(melittid bees)

Family Megachilidae

(leafcutting bees)

Family Anthophoridae

(cuckoo bees, carpenter bees)

Family Apidae
(bumble bees, honey bee)

Terry Laverty
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London, ON n6a 5b7
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Superfamily Ichneumonoidea

Family Braconidae
(parasites of insects)

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Family Ichneumonidae
(parasites of insects)

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Superfamily Evanioidea

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Family Aulacidae
(parasites of wood-
boring insects)

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Family Gasteruptiidae
(parasites of solitary
wasps and bees)

Family Evaniidae
(cockroach-egg parasites)

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Harvard Museum of
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Harvard University
Cambridge, MA 02138
Tel: (617) 495-1000
Fax: (617) 495-5667

Superfamily Trigonalyoidea

Family Trigonalidae

(parasites of vespids or
hyperparasites of
caterpillars)

David A. Carmean
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Superfamily Cynipoidea

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Fred Ronquist
National Museum
Stockholm, Sweden
Tel: (46) 8-666-4250

Family Ibalidae

(parasites of horntail sawflies)

Family Figitidae

(parasites of fly or
lacewing pupae)

Family Eucolidae

(parasites of fly pupae)

Family Charipidae

(hyperparasites of aphids)

Family Cynipidae

(gall wasps)

Joe D. Shorthouse
Dept. of Biology
Laurentian University
Sudbury, ON P3E 2C6
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Fax: (416) 949-8739

Superfamily Proctotrupeoidea

(parasites of beetles,
lacewings, flies)

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- Superfamily Platygasteroidea **Lubomir Masner**
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Tel: (613) 759-1827
Fax: (613) 759-1927
- Family Scelionidae
(parasites of insect eggs) **Norman F. Johnson**
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Ohio State University
1735 Neil Ave.
Columbus, OH 43210
Tel: (614) 292-6595
Fax: (614) 292-2180
- Family Platygasteridae
(parasites of gall midges)
- Superfamily Ceraphronoidea
(parasites of insects,
hyperparasites of aphids) **Lubomir Masner**
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Tel: (613) 759-1827
Fax: (613) 759-1927
- Superfamily Mymarommatoidea **John T. Huber**
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Tel: (613) 759-1840
Fax: (613) 759-1927
- Superfamily Chalcidoidea **Gary A.P. Gibson and
John T. Huber**
Biological Resources Division
Centre for Land and Biological
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Agriculture-Agrifood Canada
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Tel: (613) 759-1823
Fax: (613) 759-1927

Family Chalcididae
(parasites or hyper-parasites
of flies, butterflies, moths)

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Tel: (613) 759-1823
Fax: (613) 759-1927

Family Eurytomidae
(seed and plant eaters,
parasites of insects)

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Family Pteromalidae
(parasites of insects)

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Family Torymidae
(plant galls, or parasites
of plant galling insects)

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Family Ormyridae
(parasites or hyper-
parasites of plant
galling insects)

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Family Perilampidae
(parasites of wood-boring
beetles, or hyperparasites
of moths and butterflies)

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Family Eucharitidae
(parasites of ants)

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Family Eupelmidae
(parasites of insects)

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Family Encyrtidae
(parasites of scales
and other insects)

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Gregory Zolnerowich**
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Family Aphelinidae
(parasites or hyper-parasites
of whiteflies, aphids,
other insects)

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Tel: (409) 845-9349

Family Signiphoridae
(parasites of aphids,
whiteflies, other insects)

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Tel: (409) 845-9349

Family Tetracampidae
(parasites of plant-mining
flies, leaf beetles)

Family Eulophidae
(parasites of insects)

Family Elasmidae
(parasites or hyper-parasites
of moths and butterflies)

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Family Trichogrammatidae
(parasites of insect eggs)

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Family Mymaridae
(parasites of insect eggs)

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Subphylum Pentastomida
(tongue worms)

Section Deuterostomia

Phylum Chaetognatha*
(arrow worms)

Phylum Echinodermata*
(starfish and relatives)

Valerie Macdonald
5820 Old West Saanich Rd.
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Subphylum Crinozoa
(crinoids)

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Philip Lambert
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Subphylum Asterozoa

Class Stellerioidea
(sea stars and relatives)

Subclass Asteroidea
(starfish)

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Subclass Ophiuroidea
(brittle stars, snake stars,
basket stars)

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Class Echinoidea
(sea urchins, sand dollars)

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Class Holothuroidea
(sea cucumbers)

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Phylum Hemichordata*
(acorn worms)

Phylum Chordata
(chordates)

Subphylum Tunicata*
(tunicates)

Craig Young
Harbor Branch Oceanographic
Institute
Fort Pierce, FL 34946
Tel: (407) 464-2400

Class Ascidiacea
(sessile sea squirts)

Class Thaliacea
(pelagic tunicates)

Class Appendicularia
(solitary pelagic tunicates)

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Subphylum Vertebrata
(vertebrates)

Class Cyclostomata
(jawless fishes)

Order Myxiniiformes
(hagfishes)

Order Pteromyzoniformes
(lampreys)

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Canada Dept. of Fisheries
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Fax: (604) 756-7053

Class Chondrichthyes
(sharks, rays)

Robert N. Lea
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Monterey, CA 93940
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Class Osteichthyes*
(bony fishes)

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[rockfishes] **Graham Gillespie**
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[larval] **Jef Marliave**
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[freshwater] **J. Donald McPhail**
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[dreamers, anglerfishes] **Theodore W. Pietsch**
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[freshwater] **W.B. Scott**
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Class Amphibia
(frogs, salamanders)

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Linda A. Depuis
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Class Mammalia
(mammals)

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Order Insectivora
(moles, shrews)

Order Chiroptera
(bats)

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Order Lagomorpha
(rabbits, hares, pikas)

Order Rodentia
(rodents)

Order Odontocera
(toothed whales, dolphins)

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West Coast Whale Foundation
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Order Mysticeta
(baleen whales)

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Order Carnivora
(carnivores)

Order Artiodactyla
(even-toed ungulates)

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Groups marked with an asterisk (*) in the main directory are among those elements found in highly diverse samples of marine and freshwater phytoplankton, zooplankton, periphyton, benthos organisms, etc. The following is a directory to persons who can identify many of the components of such samples, often in bulk.

Marine

Benthic organisms
(bottom dwellers)**Susan Hinton**

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Ichthyoplankton
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Nell Stallard

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Intertidal mud and sandflats
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Periphyton
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Phytoplankton
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