

Keys to the macrolichens and checklist of the lichens and lichenicolous fungi of New Guinea

A. Aptroot, 2009

New Guinea has the richest macrolichen flora of any tropical Asian country. Although the 1986 checklist mentions only relatively few endemics, increased research in especially the last decade of the last century has shown that many of the conspicuous macrolichens were undescribed and, indeed, endemic. There have been a few larger general publications and several smaller devoted to separate genera, and by now we can assume that most species are found and described.

1. Keys to the macrolichens

To provide an overview of the current state of knowledge, a key to the macrolichens is provided here. This set of keys is mostly a compilation of published work by various authors, but contains some original keys for groups that were not yet treated in detail. The different sources of the keys has led to a rather varied terminology, which has not forcibly been homogenized. The key treats foliose and fruticose lichens, but not squamulose or crustose ones; some arguably arbitrary choices as to inclusion have been made.

Thallus fruticose: Key A

Thallus foliose: Key B

Key A: Fruticose lichens

- 1a. Thallus yellow to orange-red, K+ purple-red 2
- 1b. Thallus variously coloured, if yellow to orange-red then not K+ purple-red 3
- 2a. Thallus of small, flattened, compacted lobes, to 1 mm wide and 2 mm tall, without marginal fibrils; marginal soredia present *Xanthoria*
- 2b. Thallus either entirely terete, angular, richly branched and with small oval soralia, sterile, or with $\pm$ flattened lobes, to 2.5 mm wide with numerous marginal fibrils; without soralia, and often fertile *Teloschistes flavicans*
- 3a. Thallus dimorphic, with a crustose, leprose or squamulose basal thallus from which arises an erect, secondary thallus with or without apothecia 4
- 3b. Thallus not dimorphic 6
- 4a. Basal thallus crustose, leprose or granular *Leprocaulon*
- 4b. Basal thallus squamulose or of rounded, peltate or flattened phyllocladia (sometimes disappearing early) 5
- 5a. Erect thallus hollow, often with squamules (at least at the base) and cups; phyllocladia and cephalodia absent; ascospores simple *Cladonia*

5b.	Erect thallus solid, without cups and squamules; granular, peltate or finger-like; phyllocladia often sessile, wrinkled to convoluted, pale brown to blackish cephalodia present; ascospores septate	<i>Stereocaulon</i>
6a.	Thallus flattened, strap-shaped, distinctly dorsiventral (with differently coloured upper and lower surface); algae concentrated near the upper surface only	7
6b.	Thallus not flattened, terete or, if flattened, algae distributed on both lower and upper sides	10
7a.	Thallus of straps; marginal cilia present	8
7b.	Thallus of combs; marginal cilia absent	9
8a.	Lower surface not corticate	<i>Heterodermia</i>
8b.	Lower surface corticate	<i>Everniastrum</i>
9a.	Algae blue-green	<i>Dictyonema</i>
9b.	Algae green	<i>Coenogonium</i>
10a.	Thallus gelatinous, dark green- to brown-black or black; photobiont blue-green	11
10b.	Thallus not gelatinous, colour various; photobiont various	12
11a.	Thallus without an upper cortex (microscope); thallus usually brown- or green-black	<i>Collema</i>
11b.	Thallus with an upper cortex consisting of a single layer of cells (microscope); thallus usually blue-grey, brown or grey-black	<i>Leptogium</i>
12a.	Thallus with blue-green algae, to c. 1 cm tall, consisting of very slender, minutely tufted, spreading filaments	13
12b.	Thallus with green algae, c. 1-20 cm tall, filamentous or otherwise	15
13a.	Thallus richly branched, ± erect, brown to black	14
13b.	Thallus little branched, ± decumbent; blue-green if erect	<i>Dictyonema</i>
14a.	Surface shiny; surface cells mosaic-forming	<i>Polychidium</i>
14b.	Surface matt, tomentose near the base; surface cells rounded.	<i>Dendroscocaulon</i> (unidentifiable morphs of <i>Sticta</i>)
15a.	Thallus and/or soralia C+ red; exclusively coastal, firmly attached to rock or bark, coastal; photobiont Trentepohlia	<i>Roccella montagnei</i>
15b.	Thallus and soralia (if present) C–; ecology various	16
16a.	Thallus filamentous, with a tough axial strand, not easily broken when branches are pulled; ascospores simple	<i>Usnea</i>
16b.	Thallus filamentous or otherwise, without a tough, axial strand (breaking cleanly when pulled apart)	17
17a.	Thallus thread-like, with thin, often pointed, apices	18
17b.	Thallus not thread-like, apices mostly blunt	19

18a.	Thallus with distinct, white, $\pm$ elongate, often convex pseudocyphellae; yellow-grey	<i>Alectoria ochroleuca</i>
18b.	Thallus with or without indistinct pseudocyphellae which are never convex; colour black.....	<i>Bryoria</i>
19a.	Thallus some shade of brown, with elongated perforations	<i>Cladia aggregata</i>
19b.	Thallus not brown or not with perforations	20
20a.	Thallus yellow-grey or yellow-green.....	21
20b.	Thallus white to greyish or brownish.....	23
21a.	Thallus with cartilaginous strands; apothecia when present with disc $\pm$ concolorous with the thallus	<i>Ramalina</i>
21b.	Thallus without cartilaginous strands; apothecia when present with red or dark disc	22
22a.	Thallus solid, wrinkled and lacunose with wavy margins	<i>Flavocetraria nivalis</i>
22b.	Thallus hollow, without wrinkles or lacunose with wavy margins	<i>Cladonia</i>
23a.	Thallus only a hollow or solid strap, without much branching except for at the tips, without apothecia, usually white.....	24
23b.	Thallus branched in some kind	25
24a.	Thallus somewhat branched.....	<i>Siphula</i>
24b.	Thallus virtually unbranched	<i>Thamnolia</i>
25a.	Branches hollow.....	26
25b.	Branches solid.....	28
26a.	Thallus terete.....	<i>Cladonia</i>
26b.	Thallus somewhat flattened	27
27a.	Lower surface of thallus not blackened; thallus often with terminal apothecia; cortex K-.....	<i>Ramalina</i>
27b.	Lower surface of thallus partly blackened; apothecia rare, not terminal; cortex K+ yellow.....	<i>Hypogymnia</i>
28a.	Thallus often with cephalodia and/or soralia; apothecia with dark brown disc; sphaerophorin absent	<i>Stereocaulon</i>
28b.	Thallus without cephalodia or soralia	29
29a.	Apothecia forming black powdery mazaedium	<i>Bunodophoron</i>
29b.	Apothecia firm	30
30a.	Thallus partly flattened; apothecia at the ontogenitically lower surface.	<i>Calathaspis devexa</i>
30b.	Thallus mostly in radial orientation on little twigs; apothecia terminal	<i>Compsocladium archboldianum</i>

Key B: Foliose lichens

1a.	Thallus yellow.....	2
1b.	Thallus not yellow.....	3
2a.	Thallus K-, lobes very small, 0.3-0.5(-1.5) mm wide.....	<i>Candelaria crawfordii</i>
2b.	Thallus K+ red, lobes more than 2 mm wide.....	<i>Xanthoria</i>
3a.	Photobiont in thallus mainly blue-green (cyanobacterial)	4
3b.	Photobiont in thallus mainly green (chlorococcoid).....	19
4a.	Thallus not layered in cross-section (homoiomorous); thallus blue-grey or brown throughout.....	5
4b.	Thallus layered in cross-section (heteromorous); upper and lower surfaces distinctly different.....	8
5a.	Thallus without a cellular upper cortex (microscope); swelling rapidly when wet.	6
5b.	Upper cortex of a single layer of well-defined cells (microscope), thallus not swollen when wet.....	<i>Leptogium</i>
6a.	Thallus bluish, without apothecia	<i>Kroswia crystallifera</i>
6b.	Thallus brown, often with apothecia.....	7
7a.	Ascospore simple; thallus very thick	<i>Physma</i>
7b.	Ascospores septate	<i>Collema</i>
8a.	Thallus squamulose or placodioid, often with blue-black prothallus	9
8b.	Thallus foliose.....	12
9a.	Thallus plate-like, Pd-; thalline exciple absent	<i>Degelia</i>
9b.	Thallus with distinct lobes	10
10a.	Thallus mainly brown; hymenium I+ blue turnig brown.....	<i>Fuscopannaria</i>
10b.	Thallus mainly grey; hymenium I+ persistently blue	11
11a.	Thallus always PD-; asci with internal amyloid ring structure.....	<i>Parmeliella</i>
11b.	Thallus often PD+; asci without internal amyloid structure	<i>Pannaria</i>
12a.	Thallus closely applicated to substrate and usually under 3 cm wide	13
12b.	Thallus ascending and free from substrate except of attachment structures.....	15
13a.	Thallus with stiff hairs, mostly PD+ orange; apothecia marginal	<i>Erioderma</i>
13b.	Thallus with arachnoid hairs or glabrous, always PD-; apothecia laminal.....	14
14a.	Thallus bluish, upper surface smooth; asci with I+ blue cap.....	<i>Coccocarpia</i>
14a.	Thallus bluish, upper surface cob-webby; asci with I+ blue cap.....	<i>Leioderma</i>
14b.	Thallus brownish, upper surface smooth; asci without I+ blue cap.....	 <i>Fuscoderma papuanorum</i>
15a.	Cyphellae or pseudocyphellae present on lower surface	16

- 15b.** Cyphellae and pseudocyphellae absent from lower surface, but bald patches may be present amongst the tomentum..... **17**
- 16a.** Cyphellae present with distinct raised margins, thallus smelling of fish when wet.
..... *Sticta*
- 16b.** Pseudocyphellae present without distinct raised margins, thallus not smelling of fish when wet *Pseudocyphellaria*
- 17a.** Lower surface naked or sparingly tomentose (but tomentose in two extinct species), apothecia (if present) on lower surface of lobe ends *Nephroma*
- 17b.** Lower surface tomentose, apothecia (if present) on upper surface of thallus or lobe ends **18**
- 18a.** Lower surface with a $\pm$ well-developed coarse network of white or brown veins; apothecia (if present) on short marginal projections..... *Peltigera*
- 18b.** Lower surface without veins, but with bald patches amongst the tomentum; apothecia (if present) laminal..... *Lobaria*
- 19a.** Thallus with spongiostrium (dense sponge-like cushions on lower surface)..... **20**
- 19b.** Thallus without spongiostrium..... **21**
- 20a.** Upper surface yellowish, with usnic acid *Pannoparmelia angustata*
- 20b.** Upper surface grey, without usnic acid..... *Anzia*
- 21a.** Thallus lobes inflated, hollow in section, lower surface without rhizines..... **22**
- 21b.** Thallus lobes solid in section, flat or convex..... **23**
- 22a.** Thallus without perforations on the upper surface *Hypogymnia*
- 22b.** Thallus with perforations on the upper or lower surface *Menegazzia*
- 23a.** Lobes with tomentum on lower surface, with or without lower cortex **24**
- 23b.** Lobes with distinct lower cortex, tomentum absent **28**
- 24a.** Thallus lobes rounded, with a single urceolate apothecia $\pm$ immersed in the centre of the thallus or if absent lower surface orange and without distinct veins.
..... *Solorina simensis*
- 24b.** Thallus lobes spreading, or if rounded then with distinct raised veins; apothecia if present on margins of the thallus **25**
- 25a.** Lobes without a lower cortex; rhizines often conspicuous to the margin... *Peltigera*
- 25b.** Lobes with a distinct lower cortex; rhizines absent from the margin of the lower surface **26**
- 26a.** Cyphellae and pseudocyphellae absent on lower surface *Lobaria*
- 26b.** Cyphellae or pseudocyphellae present on lower surface **27**
- 27a.** Cyphellae white, with distinct raised margins present on lower surface..... *Sticta*
- 27b.** Pseudocyphellae present as punctiform or effigurate breaks in the lower cortex.
..... *Pseudocyphellaria*

28a. Thallus in the centre not foliose; only along the margins	29
28b. Thallus foliose throughout	30
29a. Hymenium I+ bright blue	<i>Pannaria</i>
29b. Hymenium I+ dirty blue	<i>Psoroma filicicola</i>
30a. Thallus white, grey or brownish grey, lobes up to 5 mm wide, usually matt, often pruinose; spores brown, 1-septate (Physciaceae).....	31
30b. Thallus yellow-green, grey or brown, lobes from 1 mm to several centimetres wide, usually ± shiny in younger parts, rarely pruinose; spores colourless, simple (Parmeliaceae).....	36
31a. Thallus whitish to bluish grey, K+ yellow	32
31b. Thallus grey brown to brown, K-.....	35
32a. Rhizines nearly absent; medulla UV+ white	<i>Dirinaria</i>
32b. Rhizines present; medulla UV-	33
33a. Thallus with marginal cilia or rhizines; upper cortex and hyphae running parallel to the upper surface (microscope).....	<i>Heterodermia</i>
33b. Thallus without marginal rhizines or cilia; upper cortex and hyphae with a cellular structure (microscope)	34
34a. Hypothecium black; lower surface usually black; thallus often UV+ yellow <i>Pyxine</i>	
34b. Hypothecium pale; lower surface white to black; thallus UV-.....	<i>Physcia</i>
35a. Rhizines absent or sparse	<i>Hyperphyscia adglutinata</i>
35b. Rhizines numerous.....	<i>Phaeophyscia</i>
36a. Cilia with inflated base	37
36b. Cilia, if present, without inflated base	38
37a. Upper surface grey, K+ yellow, with atranorin	<i>Bulbothrix</i>
37b. Upper surface yellowish green, with usnic acid	<i>Relicina</i>
38a. Thallus erect, ± tufted	39
38b. Thallus adnate to loosely overlapping	40
39a. Thallus lobes brown throughout	<i>Cetraria</i>
39b. Thallus lobes yellow-green, green to grey-green or whitish....	<i>Flavocetraria nivalis</i>
40a. Pseudocyphellae present on upper surface, punctiform or effigurate.....	41
40b. Pseudocyphellae absent	43
41a. Pseudocyphellae effigurate	<i>Parmelia erumpens</i>
41b. Pseudocyphellae punctiform.....	42
42a. Lobes overlapping, apothecia usually absent.....	<i>Cetrelia</i>
42b. Lobes not overlapping, apothecia often present	<i>Nephromopsis</i>

43a. Rhizines branched dichotomous or squarrose (simple rhizines may also be present)	<i>Hypotrachyna</i>
43b. Rhizines simple (or at most forked)	44
44a. Thallus closely appressed to substratum	45
44b. Thallus not appressed to substratum, with loosely overlapping lobes	47
45a. Cilia present	<i>Hypotrachyna</i> Key
45b. Cilia absent	46
46a. Thallus closely appressed on rock	<i>Xanthoparmelia</i>
46b. Thallus closely appressed on rock	<i>Relicinasia</i>
47a. Thallus grey-green (usnic acid absent)	48
47b. Thallus yellow-green (usnic acid present)	50
48a. Cilia present	49
48b. Cilia absent	<i>Canoparmelia</i>
49a. Rhizines branched dichotomous or squarrose (simple rhizines may also be present)	<i>Hypotrachyna</i> Key
49b. Rhizines simple (or at most forked), often absent along the lower margin	<i>Parmotrema</i> Key
50a. Thallus with discrete or pustular soralia	<i>Flavoparmelia haysomii</i>
50b. Thallus without soralia; isidia sometimes present	<i>Xanthoparmelia</i>

Anzia Key (after Yoshimura, I., H.J.M. Sipman & A. Aptroot 1995. The lichen genus *Anzia* in New Guinea. *Bibliotheca Lichenologica* 58: 439-469.):

1a. Without lobules, isidia, pustules or soredia; apothecia often present	2
1b. With lobules, isidia, pustules or soredia; apothecia usually absent	5
2a. Spongiostratum moniliform, in interrupted, rounded patches	<i>A. pseudoangustata</i>
2b. Spongiostratum not moniliform, in a continuous band	3
3a. Upper surface of lobes $\pm$ convex; white marginal rim mostly absent; central cavity between spongiostratum and medulla present; medulla C+ red or rarely C-, with or without anziaic acid	<i>A. gregoriana</i>
3b. Upper surface of lobes $\pm$ flat; white marginal rim present; spongiostratum without cavities; medulla C+ red or (usually) C-, with or without anziaic acid	4
4a. Medulla C-, with lobaric acid or norlobaridone, without anziaic acid, never with yellow pigment	<i>A. semiteres</i>
4b. Medulla C+ red, with anziaic acid, sometimes with yellow pigment	<i>A. endoflavida</i>
4c. Medulla C+red, with anziaic acid and 4-O-methylhypocetraric acid	<i>A. niuginiensis</i>
5a. With lobules or cylindrical isidia	6
5b. With soralia or pustules	10

- 6a. With lobules 7
- 6b. With cylindrical isidia 8
- 7a. Upper surface of lobes $\pm$ flat; white marginal rim present; spongiostratum without cavities; medulla C-, with lobaric acid *A. ornatoides*
- 7b. Upper surface of lobes $\pm$ convex; white marginal rim often absent; central cavity between spongiostratum and medulla present; medulla C+ red, with anziaic acid. *A. pseudopustulata*
- 8a. Upper surface of lobes $\pm$ convex; white marginal rim often absent; central cavity between spongiostratum and medulla present; medulla C+ red, with anziaic acid. *A. corallophora*
- 8b. Upper surface of lobes $\pm$ flat; white marginal rim present; spongiostratum without cavities 9
- 9a. Isidia c. 0.1 mm wide and up to c. 0.4 mm long, with browned tips, rarely branched, when young club-shaped; medulla C+ yellow-orange, with lobaric acid and identified substances *A. isidiolenta*
- 9b. Isidia c. 0.1-0.3 mm wide and c. 0.5-1.2 mm long, without browned tips, more or less branched, not club-shaped; medulla C-, with norlobaridone or lobaric acid, occasionally without *A. isidiosa*
- 10a. With soralia; medulla C-, UV+ white, with divaricatic acid 11
- 10b. With pustules; medulla C+ red, LTV-, with anziaic acid 12
- 11a. With bubble- to urn-shaped, laminal soralia *A. afromontana*
- 11b. With labriiform soralia on the lower side of recurved lobe tips *A. americana*
- 12a. Pustules mostly terminal, producing coarse soredia or tiny, coralloid lobules; upper surface of lobes $\pm$ flat; white marginal rim present; spongiostratum without cavities *A. pustulata*
- 12b. Pustules mostly lateral, producing convex lobules; upper surface of lobes $\pm$ convex; white marginal rim present; spongiostratum with central cavity between spongiostratum and medulla *A. pseudopustulata*

Bryoria Key:

- 1a. Thallus sorediate *B. dahlii*
- 1b. Thallus not sorediate *B. indonesica*

Bulbothrix Key:

- 1a. Thallus without isidia or lobules *B. tuskiiformis*
- 1b. Thallus with isidia or lobules 2
- 2a. Lobes black below, relatively broad *B. tabacina*
- 2b. Lobes brown below, narrow 3
- 3a. Medulla C+ pink *B. goebelii*

- 3b. Medulla C- 4
- 4a. Medulla P+ yellow, K+ red (salazinic) *B. isidiza*
- 4b. Medulla P+ red (protocetraric) *B. subinflata*

Bunodophoron Key:

- 1a. Thallus hollow *B. diplotypus*
- 1b. Thallus solid 2
- 2a. Branched thin, less than 2 mm wide *B. murrayi*
- 2b. Branches thick, more than 2 mm wide *B. patagonicus*

Canoparmelia Key:

- 1a. Thallus isidiate *C. adspersa*
- 1b. Thallus sorediate *C. texana*

Cetraria Key:

- 1a. Thallus broad; lobes usually over 2 mm wide *C. islandica*
- 1b. Thallus narrow; lobes usually under 2 mm wide *C. nigricans*

Cetrelia Key:

- 1a. With (mostly marginal) soredia; medulla UV+ or UV- 2
- 1b. With (mostly marginal) isidia or lobuli; medulla UV+ white 3
- 2a. Medulla C+ red, UV- (olivetric acid) *C. olivetorum*
- 2b. Medulla C-, KC+ reddish, UV+ white (alectoronic acid) *C. chicitae*
- 3a. With (usually short) isidia (alectoronic acid) *C. braunsiana*
- 3b. With marginal lobules (microphyllinic acid) *C. japonica*

Cladonia Key (after Stenroos, S. 1986. The family Cladoniaceae in Melanesia. 2. *Cladonia* section *Cocciferae*. Annales Botanici Fennici 23: 239-250. and Stenroos, S. 1988a. The family Cladoniaceae in Melanesia. 3. *Cladonia* sections *Helopodium*, *Perviae* and *Cladonia*. Annales Botanici Fennici 25: 117-148.):

- 1a. Thallus without squamules 2
- 1b. At least some squamules present 3
- 2a. Thallus inflated, little branched *C. papuana*
- 2b. Thallus not inflated, densely (at least 5 times) branched *C. confusa*
- 3a. Podetial axils, scyphi and often tips open 4
- 3b. Podetial axils, scyphi and tips closed 7
- 4a. Podetia richly branched; contains fumarprotocetraric acid (PD+ red) 5

4b.	Podetia moderately branched; contains thamnolic or squamatic acid (PD+ yellow or PD-)	6
5a.	Podetial walls with lateral fissures and perforations, stereome thin	<i>C. corymbescens</i>
5b.	Fissures and perforations lacking, stereome thick and hard	<i>C. scabriuscula</i>
6a.	Surface of the podetia smoothly corticate, sometimes with few microsquamules, medulla UV-.....	<i>C. crispata</i>
6b.	Surface of the podetia rough, microsquamulose, medulla often UV+ white.	<i>C. squamosa</i>
7a.	Apothecia when present brown; lower surface of squamules without yellow.....	8
7b.	Apothecia when present red; lower surfac of squamules often partly yellow	27
8a.	Podetia ascyphose, blunt, esorediate, commonly terminating in hymenial discs	9
8b.	Podetia scyphose or if ascyphose, then usually subulate, sorediate and without hymenial discs.....	10
9a.	Basal squamules small; contains fumarprotocetraric acid (PD+ red)	<i>C. peziziformis</i>
9b.	Basal squamules large; contains psoromic acid (PD+ yellow, K-)...	<i>C. macrophylla</i>
9c.	Basal sqamules large; contains norstictic acid (K+red).....	<i>C. polycarpoides</i>
10a.	Podetia at least partly sorediate.....	11
10b.	Podetia esorediate, smoothly corticate to squamulose.....	19
11a.	Podetia lacking scyphi	12
11b.	Podetia bearing distinct scyphi	14
12a.	Podetia sorediate throughout, not or scarcely melanotic	13
12b.	Podctia esorediate, melanotic, verruculose	<i>C. melanocaulis</i>
13a.	Podctia repeatedly branched, soredia coasre, caducous.....	<i>C. corniculata</i>
13b.	Podetia simple or with few branches; soredia finely granulose, immixed with microsquamules	<i>C. subradiata</i>
14a.	Podetia entirely sorediate, scyphi wide.....	15
14b.	Podetia partly corticate	16
15a.	Soredia farinose to finely granulose, immixed with microsquamules down to base	<i>C. subsquamosa</i>
15b.	Soredia granulose.....	<i>C. chlorophaea</i>
16a.	Scyphi narrow (0.5-1.5 mm), soralia tuberculate, partly epicorticate; podetia pale greenish-brown	<i>C. phyllopoda</i>
16b.	Scyphi generally wider (1-4 mm), soredia not tuberculate.....	17
17a.	Scyphi deep, often with fundic perforations	<i>C. poeciloclada</i>
17b.	Scyphi shallow, closed.....	18

18a. Scyphi generally well developed; soredia farinose, in patches, confined to the scyphal margins; podetia medium to dark brown; contains fumarprotocetraric acid (PD+red)	<i>C. ochrochlora</i>
18b. Scyphi often deformed, soredia powdery to granulose; contains fumarprotocetraric (PD+ red) or psoromic acid (PD+ yellow).....	<i>C. fruticulosa</i>
19a. Podetia lacking scyphi	20
19b. Podetia with scyphi	22
20a. Podetia richly branched.....	5
20b. Podetia simple or moderately branched.....	21
21a. Podetial surface smooth; walls with lateral slits	<i>C. fenestralis</i>
21b. Podetial surface roughly microsquamulose	<i>C. ramulosa</i>
22a. Scyphi proliferating from the centre	23
22b. Scyphi proliferating from the margins	25
23a. Scyphi deformed, irregular, sparsely present.....	<i>C. fenestralis</i>
23b. Scyphi regular, well developed.....	24
24a. Surface of the podetia smoothly corticate, scyphi wide	<i>C. rappii</i>
24b. Surface of the podetia partly ecorticate, squamulose; scyphi narrow.	<i>C. gymnopoda</i>
25a. Surface of the podetia smooth; walls with lateral slits	<i>C. fenestralis</i>
25b. Surface of the podetia granulose to microsquamulose	26
26a. Surface of the podetia granulose to phyllidioid, basal squamules thick, chalk-white inside	<i>C. pocillum</i>
26b. Surface of the podetia roughly microsquamulose.....	<i>C. ramulosa</i> s.l.
27a. Podetia scyphose.....	28
27b. Podetia ascyphose, tips subulate	30
28a. Podetia sorediate	<i>C. yunnana</i>
28b. Podetia not sorediate	29
29a. Podetia provided with regular, wide scyphi; podetial stalk corticate; scyphi areolate-corticate; contains zeorin	<i>C. coccifera</i>
29b. Podetia with irregularly proliferating scyphi; basal part, as well as the interior of the scyphi corticate; contains thamnolic acid	<i>C. vulcani</i>
30a. Podetia often without hymenia; at least partly farinose sorediate	31
30b. Podetia often with hymenial discs; esorediate, squamulose or partly corticate.....	32
31a. Podetia entirely ecorticate.....	<i>C. macilenta</i>
31b. Podetia distinctly corticate at lower parts, cortex often covering one third of the podetia.....	<i>C. weymouthii</i>

- 32a.** Podetia ecorticate, microsquamulose to partly granulose; squamules narrow, generally pointing downwards.....*C. didyma*
32b. Podetia distinctly corticate at base and below hymenia, other parts ecorticate, scabrose to finely granulose..... *C. floerkeana*

Coccocarpia Key:

- 1a.** Lobes slender (less than 0.5 mm wide), not appressed..... **2**
1b. Lobes broader, or closely appressed **4**
- 2a.** Lobes cuneate, with accessory lobes *C. rottleri*
2b. Lobes filiform **3**
- 3a.** Thallus with isidia.....*C. domingensis*
3b. Thallus without isidia..... *C. tenuissima*
- 4a.** Thallus pruinose (compare with the other, common species)..... **5**
4b. Thallus not pruinose; here all common species **6**
- 5a.** Thallus with isidia..... *C. smaragdina*
5b. Thallus without isidia..... *C. pruinosa*
- 6a.** Thallus with isidia..... **7**
6b. Thallus without isidia..... **10**
- 7a.** Thallus tightly adnate, isidia cylindrical..... **8**
7b. Thallus loosely appressed, isidia flattened..... **9**
- 8a.** Lobes cuneate, richly branched.....*C. dissecta*
8b. Lobes rounded, sparingly branched*C. palmicola*
- 9a.** Lobe margins upturned, lobes elongate*C. glaucina*
9b. Lobe margin flat, lobes rounded *C. pellita*
- 10a.** Thallus tightly adnate..... **11**
10b. Thallus loosely appressed *C. erythroxyli*
- 11a.** Foliicolous, lobes tips rounded*C. aeruginosa*
11b. Corticolous, lobes tips truncate..... *C. adnata*

Coenogonium Key (only fruticose species):

- 1a.** Spores simple *C. leprieurii*
1b. Spores 1-septate *C. linkii*

Collema Key:

- 1a.** Thallus isidiate **2**
1b. Thallus without isidia, with apothecia **3**

- 2a. Thallus not lobed around the margin *C. leptaleum* var. *biliolum*
 2b. Thallus conspicuously lobed.....*C. rugosum*
- 3a. Thallus rough, not lobed around the margin 4
 3b. Thallus smooth or with ridges, conspicuously lobed..... 7
- 4a. Spores 4-celled, thallus pale brownish.....*C. leptaleum*
 4b. Spores many-celled, thallus brown to black 5
- 5a. Apothecia with thick layer of paraplectenchymatous cells..... *C. coilocarpum*
 5b. Apothecia without such a layer..... 6
- 6a. Thallus dark brown to black, excipulum with thick-walled cells, spores mostly < 100 µm *C. papuanorum*
 6b. Thallus medium brown, excipulum with thin-walled cells, spores often > 100 µm. *C. fasciculare* var. *microcarpum*
- 7a. Thallus with ridges, sometimes fenestrate, spores acicular *C. actinoptychum*
 7b. Thallus smooth, resembling a *Leptogium*..... 8
- 8a. Spores submuriform..... *C. subconveniens*
 8b. Spores acicular*C. chimbuense*

Degelia Key:

- 1a. Thallus sorediate *D. sorediata*
 1b. Thallus not sorediate*D. minor*

Dictyonema Key:

- 1a. Hyphae with clamps..... 2
 1b. Hyphae without clamps..... 3
- 2a. Thallus crustose, corticioid*D. irpicinum*
 2b. Thallus nearly foliose, stereoid*D. ligulatum*
- 3a. Algal trichome uniseriate*D. sericeum*
 3b. Algal trichome biseriate*D. moorei*

Dirinaria Key:

- 1a. Thallus with isidia or soredia 2
 1b. Thallus without vegetative propagules 5
- 2a. Thallus with isidia..... *D. papillulifera*
 2b. Thallus with soredia..... 3
- 3a. Soredia pustular *D. aegialita*
 3b. Soredia rounded, regular 4

- 4a. Lobes placodioid, confluent..... *D. applanata*
- 4b. Lobes discrete, adnate..... *D. picta*
- 5a. Lobes placodioid, confluent..... *D. confluens*
- 5b. Lobes discrete, adnate..... *D. purpurascens*

Erioderma Key (after Jørgensen, P.M. & H.J.M. Sipman 2002a. The lichen genus *Erioderma* in Southeast Asia. Ann. Bot. Fennici 39: 201-211.):

- 1a. Thallus sorediate, rarely fertile *E. sorediatum*
- 1b. Thallus not sorediate, usually fertile 2
- 2a. Lower surface with distinct, raised veins, upper scrobiculate, mostly Pd-..... *E. tomentosum*
- 2b. Lower surface not veined, upper smooth, mostly Pd+ 3
- 3a. Lower surface orange, K+ orange; apothecial margins hairy, hairs often blackish..... *E. gloriosum*
- 3b. Lower surface creamish white, K-; apothecial margins warted or hairy, hairs whitish only..... 4
- 4a. Lobes narrow (<3 mm), convex, scabrous, lined by dense brown rhizohyphae, mainly containing vicanicin; apothecia terminal *E. phaeorhizum*
- 4b. Lobes broader (>3 mm), flat to concave, hairy with scattered marginal, black rhizohyphae..... 5
- 5a. Thallus broad-lobed with coarse, erect, bundled hairs, apothecia finally large (>5 mm)..... 6
- 5b. Thallus dichotomously divided, downy hairy or glabrous, apothecia smaller(<5 mm)..... *E. confusum*
- 6a. Thallus coriaceous with long, soft hairs, PD+ faintly yellow (allorhizhin and barbatic acid derivatives), Mt. Albert Edward only *E. barbellatum* ssp. *coriaceum*
- 6b. Thallus softer mainly with stout, short hairs, PD+ orange (argopsin), widespread..... *E. pellitum*

Everniastrum Key:

- 1a. With isidia..... *E. vexans*
- 1b. Without isidia..... 2
- 2a. Without soredia..... *E. cirrhatum*
- 2b. With soredia..... 3
- 3a. Medulla C+ red, K-..... *E. catawbiense*
- 3b. Medulla C-, K+ red..... *E. sorocheilum*

Fuscopannaria Key (after Jørgensen, P.M. & H.J.M. Sipman 2006. The lichen family Pannariaceae in the montane regions of New Guinea. Journal of the Hattori Botanical Laboratory 100: 695-720.):

- 1a. Thallus with bluish gymnidia (isidia without cortex) *F. coerulescens*
- 1b. Thallus without gymnidia 2
- 2a. Squamules large (to 5 mm), uniformly coloured, widely scattered on prothallus. *F. venusta*
- 2b. Squamules smaller (to 2 mm), often white-edged, mostly cushion-forming..... 3
- 3a. Squamules ca. 300 µm thick, imbricate, in cushions, spores 15-18 x 9-12 µm; on high-alpine soils *F. cacuminum*
- 3b. Squamules under 200 µm thick, partly ascending, spores 10-12 x 8-10 µm; on rotting bark in humid forest *F. dissecta*

Heterodermia Key:

- 1a. Lower surface corticate 2
- 1b. Lower surface not corticate 6
- 2a. Thallus with soredia or isidia 3
- 2b. Thallus without vegetative propagules *H. diademata*
- 3a. Thallus with isidia 4
- 3b. Thallus with soredia 5
- 4a. Thallus firm, thick, like *H. speciosa*, medulla K- *H. isidiophora*
- 4b. Thallus lax, thin, medulla K+ red *H. antillarum*
- 5a. Soredia along margins of rather broad lobes *H. albicans*
- 5b. Soredia punctiform or covering tiny side-lobes *H. speciosa*
- 6a. Lobes linear, thallus not appressed to the substrate 7
- 6b. Lobes rounded to cuneate, more or less appressed 11
- 8a. Lower surface without pigment 9
- 8b. Lower surface with pigment 10
- 9a. Thallus irregularly isidiate/sorediate *H. verrucifera*
- 9b. Thallus not isidiate *H. leucomela*
- 10a. Lower surface with yellow pigment *H. lutescens*
- 10b. Lower surface with red pigment 11
- 11a. Thallus strictly linear *H. papuana*
- 11b. Thallus partly deformed, bulging out..... *H. vulgaris*
- 12a. Thallus white, with unbranched, white cilia 13
- 12b. Thallus grey to green, with branched, coloured rhizines 15

13a. Thallus without soredia.....	<i>H. podocarpa</i>
13a. Thallus with soralia.....	14
14a. Soralia labriform to irregular	<i>H. galactophylla</i>
14b. Soralia covering parts of the lower surface.....	<i>H. comosa</i>
15a. Thallus with soredia or irregular isidia/phyllidia.....	16
15b. Thallus without soredia.....	19
16a. Lower surface with pigment	17
16b. Lower surface without pigment	18
17a. Pigment yellow, K-	<i>H. casarettiana</i>
17b. Pigment yellow to orange or red, K+ purple	<i>H. obscurata</i> s.l.
18a. Thallus with irregular isidia/phyllidia.....	<i>H. microphyllina</i>
18b. Thallus with soredia.....	<i>H. japonica</i>
19a. Lower surface with yellow pigment	<i>H. flabellata</i>
19b. Lower surface without pigment	20
20a. Thallus firm, thick, lower margin corticate	<i>H. dactyliza</i>
20b. Thallus lax, thin, lower margin not corticate	<i>H. hypoleuca</i>

Hypogymnia Key:

1a. Thallus with isidia, soralia or pustules.....	2
1b. Thallus without vegetative propagules	5
2a. Thallus soft, with isidia (if firm and with isidia, see <i>Menegazzia</i>)	<i>H. zeylanica</i>
2b. Thallus not soft, with soredia or pustules	3
3a. Soredia labriform, terminal, thallus brownish	<i>H. vittata</i>
3b. Soredia punctiform to confluent and pustular, laminal.....	4
4a. Soredia punctiform, thallus glossy, brown	<i>H. bitteri</i>
4b. Soredia confluent, pustular, thallus grey.....	<i>H. pseudobitteriana</i>
5a. Thallus brown or partly black, lobes rarely branched.....	<i>H. lugubris</i>
5b. Thallus grey, lobes much branched	<i>H. pectinatula</i>

Hypotrachyna Key (after Louwhoff, S.H.J.J. & J.A. Elix 2002. *Hypotrachyna* and allied lichen genera in Papua New Guinea. Bibliotheca Lichenologica 81: 1-149.):

1a. Lobes eciliate	2
1b. Lobes with marginal cilia.....	41
2a. Upper cortex yellow-green; usnic acid present.....	3
2b. Upper cortex grey; atranorin or lichexanthone present.....	13

3a.	Thallus lacking isidia, soredia and pustules.....	<i>H. reducens</i>
3b.	Thallus with isidia, soredia or pustules.....	4
4a.	Thallus sorediate or pustulate; isidia absent	5
4b.	Thallus isidiate; isidia cylindrical, ±becoming sorediate.....	8
5a.	Thallus pustulate-sorediate	<i>H. meyeri</i>
5b.	Thallus sorediate; pustules absent.....	6
6a.	Medulla K- or K+ yellow-brown; fumarprotocetraric acid present.....	<i>H. simbuensis</i>
6b.	Medulla K+ yellow turning dark red; salazinic or galbinic acid present.....	7
7a.	Medulla containing galbinic acid (major) and salazinic acid (minor) ...	<i>H. galbinica</i>
7b.	Medulla containing salazinic acid (major); galbinic acid absent.....	<i>H. sinuosa</i>
8a.	Medulla K+ yellow then dark red; salazinic, galbinic or norstictic acids present ...	9
8b.	Medulla K- or K+ yellow-brown; fumarprotocetraric or physodalic acids present	12
9a.	Galbinic acid (major or submajor) present	<i>H. microblasta</i>
9b.	Galbinic acid absent.....	10
10a.	Norstictic acid (major); salazinic acid absent	<i>H. hnatiukii</i>
10b.	Salazinic acid present.....	11
11a.	Salazinic acid (major); norstictic acid (trace)	<i>H. tariensis</i>
11b.	Norstictic acid (major); salazinic acid (submajor).....	<i>H. andensis</i>
12a.	Upper surface shiny; isidia slender, cylindrical; fumarprotocetraric acid present.	<i>H. munduai</i>
12b.	Upper surface dull; isidia somewhat inflated; physodalic acid present.	<i>H. subphysodolica</i>
13a.	Thallus lacking isidia, soredia and pustules.....	14
13b.	Thallus with isidia, soredia or pustules.....	18
14a.	Medulla K+ yellow then dark red; salazinic acid present.....	<i>H. corneola</i>
14b.	Medulla K- or K + yellow-brown; salazinic acid absent	15
15a.	Medulla P+ orange-red; protocetraric acid present.....	<i>H. adducta</i>
15b.	Medulla P- ; protocetraric acid absent.	16
16a.	Medulla pale yellow; secalonic acid A present.....	<i>H. peruviana</i>
16b.	Medulla white; secalonic acid A absent.....	17
17a.	Upper surface densely lobulate; barbatic and 4-O-demethylbarbatic acids present.	<i>H. neodigitata</i>
17b.	Upper surface elobulate; fatty acids present	<i>H. terricola</i>
18a.	Thallus isidiate; soredia and pustules absent	19
18b.	Thallus sorediate and/or pustulate; isidia absent	30

19a. Medulla C+ red; lecanoric acid present	<i>H. waitapensis</i>
19b. Medulla C-; lecanoric acid absent.....	20
20a. Medulla P+ orange or red; fumarprotocetraric, protocetraric and/or quaesitic acids present.....	21
20b. Medulla P-; fumarprotocetraric, protocetraric and quaesitic acids absent.....	24
21a. Medulla K+ yellow then dark red; quaesitic acid present	<i>H. quaesita</i>
21b. Medulla K- or K+ yellow-brown; quaesitic acid absent.....	22
22a. Medulla K-, KC+ orange ; fumarprotocetraric and barbatic acids present.	<i>H. malesiana</i>
22b. Medulla K+ yellow-brown; KC+ pink; protocetraric acid present.....	23
23a. Medulla yellow in part; pigmentosin A present.....	<i>H. consimilis</i>
23b. Medulla white throughout; pigmentosin A absent	<i>H. koyaensis</i>
24a. Medulla KC+ orange; barbatic acid present	25
24b. Medulla KC-; fatty acids present	28
25a. Isidia inflated; apices becoming erumpent	<i>H. toiana</i>
25b. Isidia cylindrical; apices intact.....	26
26a. Echinocarpic acid present	<i>H. addita</i>
26b. Echinocarpic acid absent.....	27
27a. Upper surface distinctly maculate; obtusatic and norobtusatic acids (submajor) present.....	<i>H. imbricatula</i>
27b. Upper surface emaculate; obtusatic and norobtusatic acids present in trace quantities or absent	<i>H. orientalis</i>
28a. Thallus loosely adnate, saxicolous or terricolous; lobes broad, 4-12 mm wide.	<i>H. terricola</i>
28b. Thallus adnate, corticolous; lobes narrower, 1-6 mm wide.....	29
29a. Lobes narrow, 1-3 mm wide; ascospores large, 20-23 x 12-15 µm; lichesterinic and protolichesterinic acids present.....	<i>H. lichesterinica</i>
29b. Lobes broader, 2-6 mm wide; ascospores small, 8-10 x 4-6 µm; constipatic, protoconstipatic and protopraesorediosic acids present.....	<i>H. costaricensis</i>
30a. Thallus pustulate-sorediate	31
30b. Thallus sorediate; pustules absent.....	35
31a. Upper cortex UV+ yellow; lichexanthone present.....	<i>H. osseoalba</i>
31b. Upper cortex UV-; lichexanthone absent.....	32
32a. Thallus laciniate; medulla C+ rose-red; gyrophoric acid present	<i>H. monticola</i>
32b. Thallus elaciniate; medulla C-; gyrophoric acid absent.....	33

33a. Medulla lemon-yellow; secalononic acid A present	<i>H. endochlora</i>
33b. Medulla white; secalononic acid A absent.....	34
34a. Echinocarpic acid present	<i>H. adjuncta</i>
34b. Echinocarpic acid absent.....	<i>H. exsecta</i>
35a. Medulla lemon-yellow; secalononic acid A present	<i>H. endochlora</i>
35b. Medulla white; secalononic acid A absent.....	36
36a. Medulla K+ yellow then dark red; salazinic acid present.....	37
36b. Medulla K- or K+ yellow-brown ; salazinic acid absent	38
37a. Soralia subterminal on hooded, reflexed lobes; zeorin present	<i>H. majoris</i>
37b. Soralia subterminal, lobe apices $\pm$ flat; zeorin absent.....	<i>H. brevihiza</i>
38a. Medulla P+ orange-red; protocetraric acid present.....	<i>H. pseudosinuosa</i>
38b. Medulla P-; protocetraric acid absent	39
39a. Medulla C+ pale red; gyrophoric or lecanoric acids present	40
39b. Medulla C-; lividic acid present.....	<i>H. immaculata</i>
40a. Rhizines richly dichotomously branched; evernic and lecanoric acids present.	<i>H. rockii</i>
40b. Rhizines sparsely dichotomously branched; gyrophoric acid present	<i>H. revoluta</i>
41a. Thallus isidiate; soredia and pustules absent	42
41b. Thallus sorediate and/or pustulate; isidia absent	45
42a. Medulla K+ yellow then dark red; salazinic acid present.. <i>Parmelinella wallichiana</i>	
42b. Medulla K- or K+ yellow-brown ; salazinic acid absent	43
43a. Medulla P+ orange-red; protocetraric acid present..... <i>Parmelinopsis protocetrarica</i>	
43b. Medulla P-; protocetraric acid absent	44
44a. Isidia ciliate; medulla C-; 3-methoxy-2,4-di-O-methylgyrophoric acid (major). <i>Parmelinopsis horrescens</i>	
44b. Isidia eciliate; medulla C+ rose; gyrophoric acid (major) ... <i>Parmelinopsis minarum</i>	
45a. Medulla pale to intense yellow; secalononic acid A present	46
45b. Medulla white; secalononic acid A absent.....	47
46a. Pustules sorediate; leucotylic acid present.....	<i>Myelochroa aurulenta</i>
46b. Pustules esorediate; leucotylic acid absent	<i>Myelochroa nothofagi</i>
47a. Soralia capitate; pustules absent	48
47b. Soralia not capitate; pustulate present.....	49
48a. Medulla K+ yellow then dark red, C-; salazinic acid present.....	<i>H. radiculata</i>
48b. Medulla K-, C+ rose; gyrophoric acid present	<i>Parmelinopsis cryptochlora</i>

- 49a. Medulla C-, KC+ rose; 3-methoxy-2,4-di-O-methylgyrophoric acid (major).
.....*Parmelinopsis subfatiscens*
- 49b. Medulla C+ rose, KC+ red; gyrophoric acid (major) **50**
- 50a. Lobes narrow, 0.5-2 mm wide; pustules not or rarely sorediate.
.....*Parmelinopsis spumosa*
- 50b. Lobes broad, 2-5 mm wide; pustules extensively sorediate.
.....*Parmelinopsis afrorevoluta*

Leioderma Key:

- 1a. Thallus sorediate *L. sorediatum*
- 1b. Thallus not sorediate *L. erythrocarpum*

Leprocaulon Key:

- 1a. Thallus K+ yellow *L. arbuscula*
- 1b. Thallus K- *L. pseudoarbuscula*

Leptogium Key:

- 1a. Lower surface with a thick layer of felty rhizinae **2**
- 1b. Lower surface without, or with short or patchy rhizinae **4**
- 2a. Thallus with isidia *L. asiaticum*
- 2b. Thallus without isidia **3**
- 3a. Apothecia marginal, convex *L. loriforme*
- 3b. Apothecia laminal and concave, or absent *L. pedicellatum*
- 4a. Thallus with isidia **5**
- 4b. Thallus without isidia, sometimes with lobules **9**
- 5a. Thallus not wrinkled *L. cyanescens*
- 5b. Thallus wrinkled **6**
- 6a. Thallus pale brown, gelatinous **7**
- 6b. Thallus greyish, thinner **8**
- 7a. Thallus lobate, with raised margins *L. marginellum*
- 7b. Thallus pulvinate to anastomosing *L. coralloideum*
- 8a. Isidia marginal, apothecia numerous *L. marginellum*
- 8b. Isidia laminal, apothecia rare *L. austroamericanum*
- 9a. Upper surface smooth (stress-wrinkles may occur) **10**
- 9b. Upper surface wrinkled **14**
- 10a. Lower surface pubescent, apothecia with marginal lobes *L. burgessii*
- 10b. Lower surface not pubescent, with or without rhizinae **11**

- 11a. Thallus purplish brown, very thin.....*L. streimannii*
 11b. Thallus grey (in some shade) 12
- 12a. Apothecia finally convex, thallus large, lobes up to 1 cm broad.....*L. cochleatum*
 12b. Apothecia concave, thallus smaller..... 13
- 13a. Thallus thin (c. 50 µm).....*L. moluccanum*
 13b. Thallus thicker (c. 80 µm)..... *L. azureum*
- 14a. Apothecia pedicellate on an inflated stipe *L. javanicum*
 14b. Apothecia not pedicellate or absent 15
- 15a. Thallus mostly lobate; apothecia flat and large*L. corticola*
 15b. Thallus mostly pulvinate to anastomosing..... 16
- 16a. Wrinkles fine, older apothecia with concentric wrinkles.....*L. bullatulum*
 16b. Wrinkles coarser, apothecia without wrinkles 17
- 17a. Wrinkles very coarse, larger than the areas in between.....*L. enkarodes*
 17b. Wrinkles smaller than the areas inbetween.....*L. fallax*

Lobaria Key (after Sipman, H. 2004. The species of *Lobaria* (lichenized Ascomycetes) in New Guinea. Bibliotheca Lichenologica 88: 573-606.):

- 1a. Photobiont bluegreen (Nostoc in glomerules), fresh thallus grey to brown when wet; medulla C- and KC-; thallus like *L. pulmonaria* (brownish, scrobiculate with reticulate ridges, tomentum at least in the central ridges black)..... 2
 1b. Photobiont green (coccoid), fresh thallus green to brown when wet; medulla usually C+ or at least KC+ red; thallus like *L. pulmonaria* or different..... 4
- 2a. Isidia present, cylindrical or applanate, mainly scattered on the ridges 3
 2b. Isidia absent *L. pseudopulmonaria*
- 3a. Central thallus ridges sharp (often higher than wide); medulla K+ yellow turning orange (stictic acid present), rarely K-.....*L. isidiosa*
 3b. Central thallus ridges rounded; medulla K- (stictic acid absent)...*L. pseudoretigera*
- 4a. Thallus *L. pulmonaria*-like, (brownish, scrobiculate with reticulate ridges, tomentum at least in the central grooves black); medulla K+ yellow turning orange (stictic acid present), rarely K-; cylindrical or flattened isidia present, marginal lobules absent..... 5
 4b. Thallus different; medulla K- (stictic acid absent); isidia or marginal lobules present or absent 7
- 5a. Medulla K+ yellow turning orange (stictic acid present), C+ red or C-, KC+ red or KC- (gyrophoric acid present or absent)..... 6
 5b. Medulla K- (stictic acid absent), C+ red or at least KC+ red (gyrophoric acid present)..... *L. spathulata*

- 6a. Medulla C+ red or at least KC+ red (gyrophoric acid present) *L. isidiophora*
 6b. Medulla C-, KC- (gyrophoric acid absent) *L. meridionalis*
- 7a. Isidia or lobules present 8
 7b. Isidia and lobules absent 10
- 8a. Marginal lobules present, fragile; thallus lobes flat or somewhat channeled; tomentum in + vein-like patches 9
 8b. Laminal, flattened, more or less lobule-like isidia present; thallus lobes shallowly scrobiculate and reticulate-ridged; tomentum equally dispersed or in reticulate pattern *L. hertelii*
- 9a. Upper cortex 20-30 µm thick; ascospores 40-45 x 7-9 µm; tomentum patches pale; congyrophoric acid present *L. crassior*
 9b. Upper cortex 35-45 µm thick; ascospores 30-35 x 10-12 µm; tomentum patches blackish, vein-like; congyrophoric acid absent *L. clemensiae* var. *crassa*
- 10a. Thallus scrobiculate to undulate, the depressions separated by wider or narrower, often reticulate ridges; tomentum largely restricted to the grooves 11
 10b. Thallus with shallow depressions or flat, sometimes slightly canaliculate or shallowly undulate, without reticulate ridges; tomentum more or less vein-like .. 13
- 11a. Thallus ridges sharp and depressions often pit-like; congyrophoric acid absent. *L. dendrophora*
 11b. Thallus ridges widely rounded and depressions rounded; congyrophoric acid present or absent 12
- 12a. Congyrophoric acid present; pycnidia immersed in flat thallus .. *L. subscrobiculata*
 12b. Congyrophoric acid absent; pycnidia raised, in prominent thallus warts *L. ferax*
- 13a. Medulla C-, KC- (gyrophoric acid absent), K- or K+ dark violet 14
 13b. Medulla C+ red or at least KC+ red (gyrophoric acid present), K- 15
- 14a. Medulla orange-brown, K+ dark violet *L. endochroma*
 14b. Medulla white, K- *L. discolor*
- 15a. Thallus closely appanate, subirregularly lobed; congyrophoric acid present; proper exciple visible as a ring around the disc *L. adscripturiens*
 15b. Thallus loosely appanate, subirregularly or sublinearly lobed; congyrophoric acid absent; proper exciple not exposed *L. discolor*

Menegazzia Key (after James, P.W., A. Aptroot, P. Diederich, H.J.M. Sipman & E.

Sérusiaux 2001. New species in the lichen genus *Menegazzia* in New Guinea. *Bibliotheca Lichenologica* 78: 91-108.):

- 1a. Thallus with numerous to very sparse vegetative propagules (soredia, pustules, isidia) or with small, often perforate, ± erect, finger-like or clavate extensions; rarely fertile 2
 1b. Thallus without vegetative propagules, but frequently with small lateral lobes or thallus extensions; usually at least sparingly fertile 9

- 2a. Thallus truly isidiate or with small, finger-like or clavate extensions..... 3
- 2b. Thallus erose- or pustulate-sorediate 5
- 3a. Lobes inflated, up to 5 mm wide; perforations confined to the lower cortex and to the upper cortex on lateral lobes or extensions; upper surface with patches of narrow, true, solid isidia which leave pits when shed..... *M. isidiata*
- 3b. Lobes not inflated, not exceeding 2.5 mm wide; perforations present in the upper cortex; hollow, finger-like or clavate extensions often present 4
- 4a. Upper cortex weakly striate-ridged to roughened; lobes often becoming pendulous, pale grey; isidia elongate *M. pendula*
- 4b. Upper cortex smooth; lobes closely appressed, at least partly glossy brown; isidia elongate *M. digitiformis*
- 4c. Upper cortex smooth; lobes closely appressed; isidia globose *M. globoisidiata*
- 5a. Upper cortex fragile, finely wrinkled, dissolving into ± effuse soredia; soralia laminal, becoming ± erose and confluent; usually containing barbatic acid, in addition to the stictic acid complex *M. dissoluta*
- 5b. Upper cortex firm, smooth or only faintly wrinkled, not dissolving into soredia; soralia or pustules delimited, often ± elevated; not containing barbatic acid; stictic acid complex present..... 6
- 6a. Lobes inflated, not or sparingly branched, up to 5 mm wide; perforations confined to the lower cortex and to the upper cortex on lateral lobes or extensions; soralia scattered, often marginal, labriform or erumpent with markedly uneven, lacerate margins..... *M. efflorescens*
- 6b. Lobes not inflated, short or only somewhat elongate, often richly branched, up to 2.5 mm wide, upper cortex perforate; soralia or pustules sparse or abundant, usually formed on short, lateral lobe extensions..... 7
- 7a. Thallus closely appressed; lobes in part pale yellowish, suffused brown to nearly black; soralia capitate, confined to central parts of the thallus, originating from marginal lobules; saxicolous *M. saxicola*
- 7b. Thallus not closely appressed; lobes not brown; soralia not capitate; rarely saxicolous..... 8
- 8a. Thallus with fatty acids *M. faminensis*
- 8b. Thallus with stictic acid complex *M. malesiana* and/or (or =) *M. subsimilis*
- 8c. Thallus with fumarprotocetraric acid..... *M. menyamyensis*
- 9a. Lobes inflated, sparingly branched; perforations restricted to lateral lobes or extensions on the upper cortex, present or nearly absent on the lower cortex..... 10
- 9b. Lobes not inflated, usually richly branched; perforations present only on the upper cortex..... 11
- 10a. Lobes sparingly irregularly branched, up to 5 mm wide; perforations confined to the lower cortex and to the upper cortex of lateral lobes or extensions; lobes greyish, rarely brown or black-maculate; apothecia rather frequent; usually epiphytic; containing stictic acid complex..... *M. megathallina*

- 10b.** Lobes loosely interwoven or separate, not exceeding 2.5 mm wide; perforations very rare and irregular; lobes at least partly glossy brown, grey- or black-maculate; apothecia absent; terricolous, saxicolous or epiphytic at high elevations; containing physodic, physodalic and alectoronic acids. *Hypogymnia lugubris*
- 11a.** Thallus of numerous, intricately interwoven lobes up to 1.5 mm wide; apothecial margins with papilla-like projections..... *M. stellata*
- 11b.** Thallus variable, short-lobed (to 3 mm wide) or with $\pm$ elongate, somewhat radiating lobes; apothecial margins never with papilla-like projections **12**
- 12a.** Thallus with fatty acids *M. aseekiensis*
- 12b.** Thallus with stictic acid complex *M. monospora*

Nephroma Key:

- 1a.** Margin of the apothecia with isidia, upper surface of the apothecia scabrid, pilose, thallus grey to brown *N. tropicum*
- 1b.** Margin of the apothecia broad, without isidia, upper surface smooth, thallus grey. *N. plumbeum*

Nephromopsis Key (after Randlane, T. & A. Saag 1998. Synopsis of the genus

Nephromopsis (fam. Parmeliaceae, lichenized Ascomycota). Cryptogamie, Bryologie et Lichénologie 19: 175-191.):

- 1a.** Apothecia laminal, always present *N. pallescens*
- 1b.** Apothecia marginal or absent *N. morrisonicola*

Pannaria Key (after Jørgensen, P.M. & H.J.M. Sipman 2006. The lichen family

Pannariaceae in the montane regions of New Guinea. Journal of the Hattori Botanical Laboratory 100: 695-720.):

- 1a.** Thallus with bluish gymnidia (isidia without cortex) *P. conoplea*
- 1b.** Thallus without gymnidia **2**
- 2a.** Thallus with isidia *P. prolificans*
- 2b.** Thallus without isidia, usually fertile..... **3**
- 3a.** Thallus with green photobiont and cephalodia **4**
- 3b.** Thallus with cyanobiont only..... **5**
- 4a.** Thallus dominated by large, spreading lobes with green photobiont, with cushions of globular cephalodia centrally..... *P. sphinctrina*
- 4b.** Thallus dominated by brittle, ascending, small squamules; green photobiont in the marginal squamules only *P. papuana*
- 5a.** Thallus gelatinous, swelling much when wet, strongly wrinkled when dry *P. lurida*
- 5b.** Thallus not gelatinous, not or shallowly wrinkled..... **6**
- 6a.** Thallus blue-green, foliose, with coarsely bundled marginal rhizohyphae; montane..... **7**

- 6b. Thallus grey or brown, placodioid or crustose; rhizohyphae short and dense, not protruding beyond the thallus lobes, or forming a thick cushion; alpine..... 8
- 7a. Thallus lobes crenulate*P. molkenboeri*
- 7b. Thallus lobes linear, ca. 1 mm wide *P. tenuis*
- 8a. Thallus grey-blue, nearly crustose, resting on a thick cushion of rhizohyphae.
.....*P. andina*
- 8b. Thallus grey-brown, placodioid, with short, dense rhizohyphae underneath.
..... *P. rubiginosa*

Parmeliella Key (after Jørgensen, P.M. & H.J.M. Sipman 2006. The lichen family Pannariaceae in the montane regions of New Guinea. Journal of the Hattori Botanical Laboratory 100: 695-720.):

- 1a. Thallus with yellow or orange colours in the medulla..... 2
- 1b. Thallus grey-brown or -blue, without yellow/orange medulla 3
- 2a. Thallus brown, with orange medulla, often fertile, on black, crustose prothallus; spores citriform *P. endoferruginea*
- 2b. Thallus grey with a yellowish hue, with yellow medulla, rarely fertile, sparingly isidiate; on black, spongy prothallus.....*P. flavida*
- 3a. Thallus foliicolous, very thin (less than 100 µm) *P. foliicola*
- 3b. Thallus not foliicolous, thicker (over 100 µm) 4
- 4a. Apothecia with thalline margin..... 5
- 4b. Apothecia only with proper margin 11
- 5a. Thallus very thick (200-400 µm) with prominent brownish rhizohyphae.
.....*P. pannarioides*
- 5b. Thallus thinner (under 200 µm) with blackish or without rhizohyphae 6
- 6a. Thallus flat, without ascending lobes, resting on a prominent prothallus 7
- 6b. Thallus cushion-forming, with at least some ascending lobes/squamules, prothallus less prominent 10
- 7a. Thallus with isidia..... 8
- 7b. Thallus without isidia..... 9
- 8a. Isidia globose to gnarled*P. brisbanensis*
- 8b. Isidia cylindrical..... *P. papillata*
- 9a. Thallus large (often over 5 cm diam.), on spongy prothallus; lowland ... *P. mariana*
- 9b. Thallus smaller (not more than 5 cm diam.), on crustose prothallus; montane.
.....*P. montana*
- 10a. Thallus coralloid, usually shiny, in dense cushions *P. nitida*
- 10b. Thallus squamulose, dull, in loose cushions*P. polyphyllina*

- 11a. Thallus with enlarged, radiating, marginal lobes.....*P. pindaundensis*
 11b. Thallus of more or less equal squamules 12
- 12a. Thallus nearly crustose with neatly incised lobes resting on blackish, crustose prothallus..... *P. philippina*
 12b. Thallus distinctly squamulose, prothallus irregular or poorly developed..... 13
- 13a. Thallus with numerous tiny lobules in lace pattern, apothecia with thick, permanent proper margin (>100 µm), spores with thin, warty perispore.
 *P. laceroides*
 13b. Thallus mostly without lobules, forming flat rosettes, apothecia with thin proper margin, often excluded at maturity (<100 µm), spores with wider, smooth perispore.....*P. hawaiiensis*

Parmotrema Key (after Louwhoff, S.H.J.J. & J.A. Elix 1999. *Parmotrema* and allied lichen genera in Papua New Guinea. Bibliotheca Lichenologica 73: 1-152.):

- 1a. Lower surface rhizinate to margins, or with or without a narrow (up to 1 mm wide), erhizinate zone 2
 1b. Lower surface with a broad, erhizinate marginal zone (to 1-1.5 cm wide) 5
- 2a. Upper surface distinctly white-maculate and becoming reticulately-cracked; rhizines simple or squarrose..... 3
 2b. Sorediate; upper surface ±irregularly cracked; rhizines dimorphous *P. subsumptum*
 2c. Isidiate; upper surface ±irregularly cracked; rhizines dimorphous..*P. subtinctorium*
- 3a. Thallus sorediate; soredia marginal *P. reticulatum*
 3b. Thallus sorediate; soredia on vertical lobes*P. clavuliferum*
 3c. Thallus esorediate 4
- 4a. Cortex rugose, conspicuously cracked and flaking off in patches *P. austrocetratum*
 4b. Cortex smooth, cracked but not flaking off*P. cetratum*
- 5a. Thallus lacking soredia, isidia or pustules 6
 5b. Thallus sorediate, isidiate or pustulate..... 16
- 6a. Medulla K+ yellow-brown; protocetraric acid present..... 7
 6b. Medulla K- or K+ yellow-orange; protocetraric acid absent..... 10
- 7a. Fatty acids (protolichesterinic and lichesterinic) present; spores large (to 34 µm long)*P. elacinulatum*
 7b. Fatty acids absent; spores smaller (to 26 µm long) 8
- 8a. Spores large, 26-32 µm long*P. pigmentosum*
 8b. Spores smaller, 18-26 µm long 9
- 9a. Thallus membranaceous, rarely laciniate; spores 18-22 µm long; conidia sublageniform *P. overeemii*
 9b. Thallus coriaceous-membranaceous, laciniate; spores 24-26 µm long (or rarely larger); conidia not seen..... *P. merrillii*

10a. Medulla K+ yellow-orange; colensoic and 4-O-methylphysodic acids present.	<i>P. menyamyense</i>
10b. Medulla K-; alectoronic acid present.....	11
11a. Cilia inconspicuous; diffractaic acid present.....	<i>P. praeinsuetum</i>
11b. Cilia conspicuous; alectoronic acid present.....	12
12a. Thallus blackened, strongly maculate.....	<i>P. nilgherrense</i>
12b. Thallus rarely blackened, emaculate or only faintly maculate	13
13a. Thallus distinctly membranaceous; lobes imbricate, lobulate-laciniate.	<i>P. subrugatum</i>
13b. Thallus membranaceous to coriaceous, lobes non-imbricate, laciniae absent.....	14
14a. Thallus membranaceous to coriaceous; spores 30-35 µm long; conidia filiform.	<i>P. corniculans</i>
14b. Thallus coriaceous; spores 12-26 µm long; conidia sublageniform	15
15a. Lobes suberect; spores 12-15 µm long	<i>P. maclayanum</i>
15b. Lobes flat, often deeply divided; spores 22-26 µm long	<i>P. durumae</i>
16a. Thallus isidiate; isidia cylindrical, wart-like or becoming sorediate	17
16b. Thallus sorediate and/or pustulate; isidia absent	34
17a. Lobes eciliate	18
17b. Lobes ciliate	25
18a. Medulla C+ pale pink or red; gyrophoric or lecanoric acids present.....	19
18b. Medulla C-; gyrophoric and lecanoric acids absent.....	20
19a. Medulla white; lecanonic acid present; pigments absent.....	<i>P. tinctorum</i>
19b. Medulla pale yellow; gyrophoric acid and pigments (eumitrins) present.	<i>P. kurokawianum</i>
20a. Medulla pigmented brownish-pink throughout; protocetraric acid absent.....	21
20b. Medulla white throughout; protocetraric acid present.....	22
21a. Isidia syncorticate at apices; secalonic acids B & C present	<i>P. lambleyi</i>
21b. Isidia epicorticate at apices; eumitrins A1, A2, A3 present.....	<i>P. sipmanii</i>
22a. Upper surface grey to grey-green; usnic acid absent.....	23
22b. Upper surface yellow-green; usnic acid present	24
23a. Patches of medullary pigment (euplectin) present; rhizines long and slender.	<i>P. watutense</i>
23b. Medullary pigment absent; rhizines short and coarse.....	<i>P. saccatilobum</i>
24a. Isidia brown- or black-tipped; medulla KC+ brick red; malonprotocetraric and protocetraric acids present	<i>P. malonprotocetraricum</i>

24b. Isidia pale-tipped; medulla KC-; malonprotocetraric acid absent	<i>P. pacificum</i>
25a. Medulla intense sulphur yellow or orange throughout; vulpinic acid present.	<i>P. sulphuratum</i>
25b. Medulla mostly white	26
26a. Lichexanthone (UV+ gold) and salazinic acid present	<i>P. ultralucens</i>
26b. Lichexanthone and salazinic acid absent	27
27a. Isidia wart-like, ciliate	<i>P. verrucatum</i>
27b. Isidia cylindrical, coralloid-branched, becoming sorediate and/or ciliate; not wart-like.....	28
28a. Isidia eciliate	29
28b. Isidia ciliate.....	30
29a. Isidia becoming ± subsorediate; medulla KC-, P-; diffractaic acid present.	<i>P. isidioinsuetum</i>
29b. Isidia intact; medulla KC+ pink-red, P+ deep orange-red; protocetraric acid present.....	<i>P. kaisenikianum</i>
30a. Isidia eventually becoming granular- sorediate	31
30b. Isidia ±fragile but not becoming sorediate.....	32
31a. Medulla K+ bright yellow; stictic acid present.....	<i>P. crinitum</i>
31b. Medulla K-; alectoronic, a-collatolic acids present	<i>P. mellissii</i>
32a. Cilia mostly to 1 mm long; lobules present; alectoronic and a-collatolic acids present.....	<i>P. nanfongensis</i>
32b. Cilia greater than 1 mm long; lobules absent; alectoronic and a-collatolic acids absent	33
33a. Medulla C-, KC- or KC+ brownish, P+ deep orange-red; fumarprotocetraric and succinprotocetraric acids present; cilia 2-5 mm long	<i>P. acrotrychum</i>
33b. Medulla C-, KC+ reddish, P+ brick red; protocetraric and protolichesterinic acids present; cilia 1.5-3 mm long	<i>P. subcorallinum</i>
34a. Thallus pustulate, ±sorediate	35
34b. Thallus sorediate; pustules absent.....	36
35a. Medulla pale yellow (eumitrin A1); pustules esorediate	<i>P. kainantum</i>
35b. Medulla white; pustules sorediate.....	<i>P. madilynae</i>
36a. Lobes eciliate	37
36b. Lobes ciliate.....	42
37a. Medulla K+ bright yellow turning bright red; salazinic acid present..	<i>P. cristiferum</i>
37b. Medulla K- or K+ dirty yellow; salazinic acid absent	38
38a. Medulla P-; fatty acid present (praesorediosic acid).....	<i>P. praesorediosum</i>

38b. Medulla P+ deep orange-red; fatty acid absent; protocetraric or succinprotocetraric acid present.....	39
39a. Soralia situated on elaborate, coralloid-branched laciniae	<i>P. naonii</i>
39b. Soralia linear and marginal, submarginal, or subcapitate; coralloid-branched laciniae absent.....	40
40a. Diffractaic acid present.....	<i>P. insuetum</i>
40b. Diffractaic acid absent	41
41a. Thallus 10 cm or more wide; medullary pigments present; echinocarpic and usnic acids present.....	<i>P. dilatatum</i>
41b. Thallus up to 7 cm wide; medulla white; usnic and echinocarpic acids absent.	<i>P. gardneri</i>
42a. Medulla K+ bright yellow turning bright red; salazinic acid present ..	<i>P. cristiferum</i>
42b. Medulla K- or K+ dirty yellow; salazinic acid absent.....	43
43a. Soralia punctiform or on elaborate, coralloid-branched laciniae.....	44
43b. Soralia punctiform or not, linear and marginal, submarginal, or subcapitate; coralloid-branched laciniae absent.....	45
44a. Medulla partly pigmented deep orange (euplectin); alectoronic acid present.	<i>P. hypomiltoides</i>
44b. Medulla white; protocetraric acid present.....	<i>P. fasciculatum</i>
45a. Medulla K+ bright yellow; stictic acid present.....	<i>P. perlatum</i>
45b. Medulla K- or K+ dirty yellow; stictic acid absent	46
46a. Medulla C+ red	47
46b. Medulla C-	49
47a. Lecanoric acid (major) present; gyrophoric acid absent.....	<i>P. cooperi</i>
47b. Gyrophoric acid (major) present; ± lecanoric acid (trace).....	48
48a. Medulla UV-, white throughout, or if pigmented, K+ purple (skyrin).	<i>P. sancti-angelii</i>
48b. Medulla UV-, yellow or pink-salmon in lower part; pigmented medulla K-.	<i>P. permutatum</i>
48c. Medulla usually UV+ greenish white; thallus maculate	<i>P. lobulascens</i>
49a. Medulla UV-or + white; protocetraric acid and/or succinprotocetraric acid present; alectoronic sometimes present	50
49b. Medulla UV+ white; alectoronic acid and/or a-collatolic acid present	55
50a. Succinprotocetraric acid (major) and protocetraric acid (minor) present.	<i>P. flaccidifolium</i>
50b. Protocetraric acid present; succinprotocetraric acid absent.....	51
51a. Cilia conspicuous, moderate to dense, more than 2 mm long	52

- 51b.** Cilia sparse, sometimes restricted to lobe axils and damaged margins only, up to 1.5 µm long **53**
- 52a.** Alecoronic acid present; cilia 2-4(-7) mm long *P. deflectens*
- 52b.** Alecoronic acid absent; cilia 2-6(-10) mm long. *P. subarnoldii*
- 53a.** Echinocarpic acid present in medulla; ± usnic acid (minor/trace) present in cortex. *P. dilatatum*
- 53b.** Echinocarpic acid and usnic acid absent **54**
- 54a.** Thallus membranaceous, often partly blackened or discoloured; soralia mainly subcapitate on laciniae *P. robustum*
- 54b.** Thallus coriaceous, not blackened; soralia mainly linear and marginal or punctiform and submarginal *P. gardneri*
- 55a.** Thallus membranaceous, usually partly blackened; spores 27-35 µm long. *P. gloriosum*
- 55b.** Thallus coriaceous, not obviously blackened; spores 10-12 µm long **56**
- 56a.** Cilia up to 3 mm long; medulla white; skyrin absent; lobes 10-20 mm wide (or rarely smaller) *P. poolii*
- 56b.** Cilia 3-6 mm long; medulla ± pigmented, containing skyrin; lobes 5-15 mm wide (or rarely larger) *P. rampoddense*

Peltigera Key (after Sérusiaux, E., B. Goffinet, J. Miadlikowska & O. Vitikainen 2009.

Taxonomy, phylogeny and biogeography of the lichen genus *Peltigera* in Papua New Guinea. Fungal Diversity 38: 185-224.):

- 1a.** Soredia or soredioid masses present, at least in parts of the thallus **2**
- 1b.** Soredia or soredioid masses absent **7**
- 2a.** Upper surface tomentose, at least in parts; soralia mostly laminal, or submarginal on old thalli **3**
- 2b.** Upper surface glabrous; soralia laminal, submarginal or marginal **4**
- 3a.** Rhizines abundant, densely branched to fibrillose; young soralia C+ red *P. extenuata*
- 3b.** Rhizines sparse, simple to loosely branched; soralia C- *P. didactyla*
- 4a.** Genuine soralia only **5**
- 4b.** Genuine soralia present but always with soredioid or isidioid masses, or with granules or phyllidia. **6**
- 5a.** Soralia mostly laminal, or submarginal and marginal; terpenoids absent *P. ulcerata*
- 5b.** Soralia strictly marginal; terpenoids present *P. weberi*
- 6a.** Margins disrupted into soralia, soredioid or isidioid masses, or with granules or phyllidia; terpenoids present with zeorin always abundantly produced; thalli usually quite large, reaching 10 cm in diam *P. cichoracea*

- 6b.** Margins with soralia or isidioid masses, when well developed also present on the edge of the lower surface; terpenoids absent; thalli usually quite small, not exceeding 2-5 cm in diam *P. granulosa*
- 7a.** Marginal lobules or phyllidia present 8
- 7b.** Marginal lobules or phyllidia absent 9
- 8a.** Upper surface smooth or faintly to distinctly scabrous, sometimes with a whitish pruina near the lobes margins resulting in a frosted appearance, lobes carrying the apothecia usually tomentose; marginal phyllidia usually abundant, but sometimes few; lower surface with a conspicuous network of usually dark, raised veins; rhizines mostly threadlike or penicillate; apothecia typically horizontal; terpenoids absent *P. papuana*
- 8b.** Upper surface smooth, rarely with a whitish pruina on lobes margins; marginal phyllidia rare (on lateral lobes or on damaged parts); lower surface usually lacking distinct veins; rhizines typically fasciculate and densely branched, remaining isolate and arranged in concentric rows or forming dense cushions under the thallus; apothecia typically saddle-shaped; terpenoids present. *P. sumatrana* (rare forms)
- 9a.** Upper surface tomentose, at least in parts; terpenoids absent 10
- 9b.** Upper surface glabrous or pruinose (in parts or at the extremities of young lobes); terpenoids present or absent 13
- 10a.** Rhizines usually very abundant and forming dense 'bushy' masses, typically fibrillose to coralloid; apothecia saddle-shaped *P. koponenii*
- 10b.** Rhizines abundant or not, simple, threadlike, penicillate or fasciculate, never fibrillose to coralloid; apothecia horizontal or saddle-shaped 11
- 11a.** Apothecia typically horizontal; pycnidia absent, or rare and inconspicuous; tomentum covering large parts of the thallus, or restricted to lobes carrying the apothecia 12
- 11b.** Apothecia typically saddle-shaped; pycnidia usually present, at least on some lobes margins, conspicuous (0.3-0.8 mm in diam.); tomentum of the upper surface most usually well-developed, but sometimes absent in parts of the thallus, with long and conspicuous (to 1-1.4 mm long) hairs or not *P. fimbriata*
- 12a.** Thallus large, to 15 cm in diam., lobes typically rounded at their extremities and 1-1.5 cm wide, margin revolute; tomentum present on most of the upper surface made of tiny whitish hairs (0.1-0.15 mm high) out of which longer ones (0.1-0.4 mm long) may emerge *P. erioderma*
- 12b.** Thallus forming attractive, small rounded rosettes (3-6 cm in diam. in suitable conditions); lobes imbricate, not exceeding 0.5-0.7 cm wide, with raised and crenate (sometimes +/- crisped) margins; tomentum usually restricted to lobes carrying apothecia but sometimes covering large parts of the thallus surface. *P. papuana* (rare forms)
- 13a.** Apothecia typically horizontal; terpenoids absent *P. montis-wilhelmii*
- 13b.** Apothecia saddle-shaped or absent; terpenoids present 14

- 14a. Tenuiorin and methylgyrophorate absent but terpenoids present; upper surface smooth, sometimes slightly pruinose at the margins or incrustated; lobes with raised and crisped lateral margins *P. oceanica*
- 14b. Tenuiorin and methylgyrophorate always produced, together with terpenoids..... 15
- 15a. Rhizines abundant, or rarely sparse, rather short, fasciculate or densely branched. 16
- 15b. Rhizines sparse or abundant, most usually long and simple..... 17
- 16a. Terpenoids present, mostly zeorin or peltidactylin but dolichorrhizin not produced*P. dolichorhiza*
- 16b. Terpenoids present, dolichorrhizin abundantly produced.....*P. sumatrana*
- 17a. Thallus robust, not distinctly undulating; lower surface with a dense network of unraised, dark veins with distinct rather small, elliptical, whitish interstices; upper surface usually with pruina at the lobes margins and sometimes with large and conspicuous incrustated patches; dolichorrhizin as the main terpenoid produced; terricolous*P. nana*
- 17b. Thallus fragile, with a distinctly undulating surface with shallow depressions, at least in well-developed specimens; lower surface with a loose network of raised, pale to dark veins with large, elliptical, whitish to pale orange interstices; terpenoids produced in several chemotypes; mostly epiphytic, rarely on rotten wood or on terricolous mosses.....*P. dolichorhiza*

Phaeophyscia Key:

- 1a. Thallus without pigment in the medulla*P. hispidula*
- 1b. Thallus with medullary pigment 2
- 2a. Medullary pigment yellow*P. crocea*
- 2b. Medullary pigment red..... *P. endococcinodes*

Physcia Key:

- 1a. Thallus without vegetative propagules 2
- 1b. Thallus with isidia or soredia 3
- 2a. Thallus maculate, saxicolous*P. phaea*
- 2b. Thallus not maculate, corticolous*P. verrucosa*
- 3a. Thallus with true isidia..... *P. vermifera*
- 3b. Thallus with soredia or isidioid soredia 4
- 4a. Lower surface black 5
- 4b. Lower surface white to brownish..... 6
- 5a. Lower surface striate, soredia mainly marginal*P. atrostriata*
- 5b. Lower surface not striate..... 6
- 6a. Upper surface bluish pruinose, soredia punctiform*P. krogiae*

6b.	Upper surface grey, not pruinose, soredia otherwise	7
7a.	Soredia marginal, sometimes isidioid	<i>P. sorediosa</i>
7b.	Soredia laminal	<i>P. erumpens</i>
8a.	Soredia laminal	9
8b.	Soredia marginal	10
9a.	Soralia crateriform, corticolous	<i>P. poncinsii</i>
9b.	Soralia capitate, saxicolous	<i>P. alboplumbea</i>
10a.	Upper surface not pruinose	<i>P. tribacoides</i>
10b.	Upper surface haevily pruinose	<i>P. dimidiata</i>

Physma Key:

1a.	Thallus with apothecia	<i>P. byrsaeum</i>
1b.	Thallus with pseudoisidia	<i>P. pseudoisidiatum</i>

Polychidium Key:

1a.	Algae Nostoc (with globose cells in chains)	<i>P. muscicola</i>
1b.	Algae Scytonema (with cylindrical cells in chains)	2
2a.	Cortex cells meandering, jig-saw-shaped; thallus shiny	<i>P. stipitatum</i>
2b.	Cortex cells rather regular, ultimate thallus branches dull	<i>P. dendriscum</i>

Pseudocyphellaria Key (modified after Galloway, D.J. 1994. Studies in *Pseudocyphellaria* IV. Paletropical species (excluding Australia). Bulletin of the British Museum (Natural History), Botany 24: 115-159.):

1a.	Photobiont green	2
1b.	Photobiont blue-green (Nostoc in chains)	10
2a.	Medulla yellow	3
2b.	Medulla white (note: pseudocyphellae or soredia could be yellow)	6
3a.	Without soredia, isidia or phyllidia	<i>P. clathrata</i>
3b.	Sorediate, isidiate or phyllidiate	4
4a.	Isidiate to phyllidiate only	<i>P. pickeringii</i>
4b.	Sorediate (isidia may also be present)	5
5a.	Soredia partly linear	<i>P. aurata</i>
5b.	Soredia formed on punctiform isidia	<i>P. poculifera</i>
6a.	Pseudocyphellae yellow	<i>P. carpoloma</i>
6b.	Pseudocyphellae white	7
7a.	Pseudocyphellae present on upper and lower surface	<i>P. reineckiana</i>

7b. Pseudocyphellae present only on lower surface	8
8a. Without soredia, isidia or phyllidia.....	<i>P. sulphurea</i>
8b. Isidiate or phyllidiate	9
9a. Lobes broad, rounded, phyllidiate	<i>P. multifida</i>
9b. Lobes narrow, punctate, isidiate to phyllidiate	<i>P. prolificans</i>
10a. Pseudocyphellae yellow	11
10b. Pseudocyphellae white.....	16
11a. Without soredia, isidia or phyllidia.....	12
11b. Sorediate, isidiate or phyllidiate	13
12a. Upper surface faveolate, sometimes also maculate	<i>P. maculata</i>
12b. Upper surface undulate only	<i>P. gilva</i>
13a. Isidiate to phyllidiate.....	14
13b. Sorediate	<i>P. crocata</i>
14a. Isidiate.....	<i>P. desfontainii</i>
14b. Phyllidiate or with proliferations	15
15a. Phyllidiate	<i>P. neglecta</i>
15b. With proliferations	<i>P. crocatoides</i>
16a. Without soredia, isidia or phyllidia.....	17
16b. Sorediate or isidiate or phyllidiate	20
17a. Pseudocyphellae present on upper and lower surface.....	18
17b. Pseudocyphellae present only on lower surface	<i>P. beccarii</i>
18a. Upper surface scrobiculate.....	<i>P. rigida</i>
18b. Upper surface plane	19
19a. Lobe margins tomentose	<i>P. trichophora</i>
19b. Lobe margins glabrous.....	<i>P. semilanata</i>
20a. Isidiate to phyllidiate.....	21
20b. Sorediate	24
21a. Phyllidiate	22
21b. Isidiate.....	23
22a. Pseudocyphellae present on upper and lower surface, surface plane .	<i>P. punctillaris</i>
22b. Pseudocyphellae present only on lower surface; upper surface pitted ...	<i>P. insculpta</i>
23a. Isidia associated with pseudocyphellae	<i>P. argyracea</i>
23b. Isidia not associated with pseudocyphellae	<i>P. dissimilis</i>

- 24a. Upper surface faveolate to pitted *P. dozyana*
 24b. Upper surface undulate only *P. intricata*

Pyxine Key:

- 1a. Thallus without vegetative propagules 2
 1b. Thallus with vegetative propagules 8
- 2a. Medulla yellow 3
 2b. Medulla white 4
- 3a. Upper surface UV- *P. limbulata*
 3b. Upper surface UV+ yellow *P. berteriana*
- 4a. Upper surface UV- 5
 4b. Upper surface UV+ yellow 7
- 5a. Lobes convex *P. convexior*
 5b. Lobes flat 6
- 6a. Medulla K-, P+red *P. schmidtii*
 6b. Medulla K+ red *P. philippina*
- 7a. Lobes pruinose, corticolous *P. petricola*
 7b. Lobes epruinose, saxicolous, small-lobed *P. minuta*
- 8a. Thallus with isidia 9
 8b. Thallus with soredia or pustules 10
- 9a. Medulla yellow *P. isidiolenta*
 9b. Medulla white *P. cylindrica*
- 10a. Medulla yellow 11
 10b. Medulla white to pale ochraceous 14
- 11a. Upper surface UV+ yellow *P. subcinerea*
 11b. Upper surface UV- 12
- 12a. Pseudocyphellae (nearly) absent *P. meissnerina*
 12b. Pseudocyphellae marginal, conspicuous 13
- 13a. Soredia granular, marginal, bluish, isidioid *P. sorediata*
 13b. Soredia farinose, laminal *P. farinosa*
- 14a. Thallus UV+ yellow *P. cocoes*
 14b. Thallus UV- 15
- 15a. Soredia pustular/isidioid (polysidiangia) *P. retirugella*
 15b. Soredia farinose, round *P. copelandii*

Ramalina Key:

1a.	Thallus with soredia.....	2
1b.	Thallus without soredia.....	4
2a.	Thallus hollow	<i>R. tenella</i>
2b.	Thallus solid.....	3
3a.	Soralia punctiform	<i>R. peruviana</i>
3b.	Soralia rounded	<i>R. nervulosa</i>
4a.	Thallus hollow	5
4b.	Thallus solid.....	6
5a.	Thallus less than 1 mm thin, apothecia rare.....	<i>R. javanica</i>
5b.	Thallus thicker, irregular, apothecia common	<i>R. inflata</i>
6a.	Thallus canaliculate to flattened	7
6b.	Thallus subterete	<i>R. tropica</i>
7a.	disc margin with white lines	<i>R. subfraxinea</i>
7b.	disc margin without white lines	<i>R. conduplicans</i>

Relicina Key (extracted from **Elix, J.A. 1996a**. A revision of the lichen genus *Relicina*.
Bibliotheca Lichenologica 62: 1-150.):

1a.	Thallus isidiate and/or lobulate.....	2
1b.	Thallus not isidiate or lobulate.....	14
2a.	Isidia globose to cylindrical	3
2b.	Isidia dorsiventral, becoming lobulate, or lobules only	8
3a.	Lower surface pale brown to dark brown	4
3b.	Lower surface black, rarely brown-black at lobe margins.....	5
4a.	Rhizines simple or sparingly branched	<i>R. sydneyensis</i>
4b.	Rhizines with secondary rhizines which are densely branched and agglutinated.	<i>R. circumnodata</i>
5a.	Lobes very narrow and tightly adnate, 0.3-1.0 mm wide	<i>R. amphithrix</i>
5b.	Lobes broader, adnate, 1-3 mm wide.....	6
6a.	Medulla K+ intense yellow (or orange) or yellow turning red; containing stictic or norstictic acids	<i>R. abstrusa</i>
6b.	Medulla K-, or K+ pale yellow, containing 4-O-demethylbarbatic, echinocarpic or gyrophoric acids.....	7
7a.	Medulla P+ yellow or orange, containing echinocarpic acid.....	<i>R. planiuscula</i>
7b.	Medulla P-, containing gyrophoric acids	<i>R. vinasii</i>

8a.	Isidia present	9
8b.	Isidia absent	11
9a.	Lobes narrow, tightly adnate, 0.3-1.0 mm wide	<i>R. amphithrix</i>
9b.	Lobes broader, adnate, 1-3.5 mm wide	10
10a.	Thallus coriaceous; apothecia ecoronate	<i>R. planiuscula</i>
10b.	Thallus fragile; apothecia subcoronate	<i>R. schizospatha</i>
11a.	Lobes narrow, tightly adnate, 0.3-1.5 mm wide	12
11b.	Lobes broader, adnate, 1-3.5 mm wide	13
12a.	Medulla P+ yellow or orange, containing echinocarpic acid.....	<i>R. palmata</i>
12b.	Medulla P-, containing relicinulinic acids A, B.....	<i>R. relicinula</i>
13a.	Medulla P+ yellow or orange; containing echinocarpic acid, ±gyrophoric acid (trace)	<i>R. gemmulosa</i>
13b.	Medulla P-, C+ rose; containing gyrophoric acid (major), echinocarpic acid absent	<i>R. luteoviridis</i>
14a.	Lower surface pale brown to dark brown	15
14b.	Lower surface black, rarely brown-black at lobe margins.....	17
15a.	Medulla P-; containing barbatic acid	<i>R. agglutinata</i>
15b.	Medulla P+ red-orange; containing protocetraric, fumarprotocetraric or succinprotocetraric acids.....	16
16a.	Spores small, ca. 3 x 2 µm; containing succinprotocetraric acid major), himarprotocetraric acid (minor)	<i>R. ramosissima</i>
16b.	Spores larger; containing protocetraric acid (major)	<i>R. sublanea</i>
17a.	Apothecia present, coronate or subcoronate	18
17b.	Apothecia ecoronate or absent	23
18a.	Medulla K+ yellow then red; containing norstictic acid.....	<i>R. subabstrusa</i>
18b.	Medulla K- or K+ yellow; norstictic acid absent.....	19
19a.	Lobes broad, 1-3 mm wide; adnate; containing gyrophoric acid (major).	<i>R. retrospinosa</i>
19b.	Lobes narrow, 0.3-1.5 mm wide; tightly adnate; gyrophoric acid absent or present in traces only	20
20a.	Medulla P-.....	21
20b.	Medulla P+ yellow, orange or red	22
21a.	Hirtifructic acid present	<i>R. fijiensis</i>
21b.	Hirtifructic acid absent.....	<i>R. relicinula</i>
22a.	Lobes separate, axils broad; with gyrophoric and echinocarpic acid ...	<i>R. samoensis</i>

- 22b. Lobes separate, axils broad; with hypostictic acid..... *R. diderichii*
 22c. Lobes contiguous, axils acute; containing hirtifructic acid *R. terricrocodila*
- 23a. Medulla P-..... 24
 23b. Medulla P+ yellow, orange or red 25
- 24a. Medulla UV+ blue-white; containing alectoronic acid.....*R. fluorescens*
 24b. Medulla UV-; containing protolichesterinic acid, butlerins A, B, C*R. connivens*
- 25a. Medulla P+ brick red; containing fumarprotocetraric acid..... *R. malesiana*
 25b. Medulla P+ yellow or orange; containing echinocarpic acid 26
- 26a. Medulla C+ rose or red; gyrophoric and hirtifructic acids present..... *R. hirtifructa*
 26b. Medulla C-; gyrophoric and hirtifructic acids absent..... 27
- 27a. Lobes broad, 1.5-3 mm wide; upper cortex columnar *R. columnaria*
 27b. Lobes narrow, 0.5-1 mm wide; upper cortex not columnar *R. sipmanii*

Relicinopsis Key:

- 1a. Thallus with soredia..... *R. malaccensis*
 1b. Thallus without vegetative propagules *R. intertexta*

Siphula Key:

- 1a. Branching dichotomous *S. dichotoma*
 1b. Branching irregular, sparse *S. decumbens*

Stereocaulon Key (after Sipman, H.J.M. 1998. Notes on the lichen genus *Stereocaulon* in New Guinea. Cryptogamie, Bryologie et Lichénologie 19: 229-245.):

- 1a. Phyllocladia wart-like or applanate to squamulose, rarely cylindrical; cephalodia not corticate, or absent 2
 1b. Phyllocladia cylindrical, sometimes coralloid-branched; cephalodia corticate..... 4
- 2a. Soredia present, mealy, usually produced on the lower side of expanded pseudopodetium apices; lobaric acid present, occasionally absent *S. leprocauloides*
 2b. Soredia absent (however, cf. remark under *S. graminosum*) 3
- 3a. Phyllocladia wart-like to peltate; stictic acid present *S. graminosum*
 3b. Phyllocladia wart-like to cylindrical; lobaric acid present *S. glareosum*
 3c. Phyllocladia wart-like to squamulose; stictic or colensoic acid present, occasionally both absent *S. myriocarpum*
- 4a. Cephalodia more or less applanate and cristate, blue-grey with white lines or dots (pseudocyphellae) on the ridges..... *S. pseudomassartianum*
 4b. Cephalodia rounded to wrinkled, blue-grey without white spots or completely white (without pseudocyphellae) 5

- 5a. Phyllocladia mainly basal, absent from most of the pseudopodetia; cephalodia usually white and with a granular surface; perlatolic acid present; on alpine rocks. *S. staufferi* 6
- 5b. Phyllocladia present all over the pseudopodetia; cephalodia blue-grey, sometimes with a brownish tinge, with a smooth surface; perlatolic acid absent; on alpine rocks or otherwise 6
- 6a. Apothecia mainly lateral on short branchlets along upper half of the pseudopodetia; above 3000 m *S. flabellatum*
- 6b. Apothecia mainly terminal, in furcately branched groups, sometimes with additional lateral ones along the apical ramifications; c. 2000-4000 m 7
- 7a. Pseudopodetia slender, 0.5-1(-1.2) mm thick; widespread in mountains from c. 2000-4000 m *S. massartianum*
- 7b. Pseudopodetia stout, 1.2-2 mm thick; above c. 3500 m only *S. brassii*

Sticta Key (some additional species are reported, but not seen by me):

- 1a. Algae green 2
- 1b. Algae bluegreen, lobe margins with or without lobules 4
- 2a. Thallus stipitate 3
- 2b. Thallus not stipitate *S. variabilis*
- 3a. Lobe margins entire *S. sayeri*
- 3b. Lobe margins with lobules *S. myrioloba*
- 4a. Thallus stipitate 5
- 4b. Thallus not stipitate 11
- 5a. Thallus with lobules or isidia 6
- 5b. Thallus without lobules or isidia 8
- 6a. Isidia laminal 7
- 6b. Lobules present, marginal *S. marginifera*
- 7a. Lobes narrow, branched *S. cyphellulata*
- 7b. Lobes rounded, unbranched *S. brevipes*
- 8a. Lobes narrow, branched 9
- 8b. Lobes broad, nearly unbranched, thallus often small 10
- 9a. Margin with black cilia *S. fimbriata*
- 9b. Margin without cilia *S. leami*
- 10a. Thallus foveate *S. heppiana*
- 10b. Thallus mostly smooth *S. boschiana*
- 11a. Thallus with soredia *S. sublimbata*
- 11b. Thallus without soredia 12

- 12a. Margins incised, on rock in alpine area *S. alpinotropica*
 12b. Margins with isidia or lobules, not incised **13**
- 13a. Margins with cylindrical isidia *S. weigeli*
 13b. Margins with flattened lobules; alpine *S. xanthotropa*

Thamnolia Key:

- 1a. Thallus hollow *T. vermicularis*
 1b. Thallus solid *T. juncea*

Usnea Key (after Stevens, G.N. 1999. A revision of the lichen family Usneaceae in Australia. Bibliotheca Lichenologica 72.):

- 1a. Axis hollow *U. baileyi*
 1b. Axis solid **2**
- 2a. Plant pendulous **3**
 2b. Plant shrubby **5**
- 3a. Main branches with erose cortex, not angular *U. longissima*
 3b. Main branches with smooth cortex, but angular **4**
- 4a. Axis yellow *U. himantodes*
 4b. Axis whitish *U. hossei*
- 5a. With soredia or isidia **6**
 5b. Without soredia or isidia **10**
- 6a. Plant partly red *U. rubicunda*
 6b. Plant greyish to yellowish **7**
- 7a. With isidia *U. dasaea*
 7b. With soredia **8**
- 8a. Branches inflated *U. perplexans*
 8b. Branches not inflated **9**
- 9a. Medulla P+ yellow, with psoromic acid *U. pycnoclada*
 9b. Medulla P- or + red, with other acids *U. bismolliuscula*
- 10a. Thallus soft, nearly without papillae *U. flexilis*
 10b. Thallus firm, with many papillae *U. molliuscula*

Xanthoparmelia Key:

- 1a. Thallus grey *X. atrocarnodes*
 1b. Thallus yellowish green **2**

- 2a. Not isidiate *X. incerta*
 2b. Thallus isidiate **3**
- 3a. Thallus narrow, closely appressed *X. mougeotina*
 3b. Thallus wider, loosely appressed **4**
- 4a. Salazinic acid the main substance *X. isidiigera*
 4b. Norstictic acid the main substance *X. neotinctina*

Xanthoria Key:

- 1a. Thallus sorediate, yellow *X. candelaria*
 1b. Thallus not sorediate, orange *X. elegans*

2. Checklist of the lichens and lichenicolous fungi reported up to 2009 from Papua New Guinea

Based on published reports, both in print and on the internet. It lists only currently accepted records, and omits first reports when they have been shown to be erroneous. Some groups, like Sticta, still include unreliable reports, others like Arthoniaceae, Ramalinaceae, Micareaeae and Graphidaceae are still very incomplete judging from the numerous unidentified samples. The present list contains 1418 species, an increase of 185 % since the last published checklist (Streimann 1986).

Abrothallus stereocaulorum Etayo Etayo 2002

A. usneae Rabenh. Aptroot et al. 1997.

Acanthothecis abaphoides (Nyl.) Staiger & Kalb www.tropicallichens.net specimen in B

A. aurantiaca (Müll. Arg.) Staiger & Kalb www.tropicallichens.net specimen in B

A. corcovadensis (Redinger) Staiger & Kalb www.tropicallichens.net specimen in B

A. dialeuca (Krempelh.) Staiger & Kalb www.tropicallichens.net specimen in B

A. farinosa Staiger www.tropicallichens.net specimen in B

A. tetrachora (Nyl.) Staiger & Kalb www.tropicallichens.net specimen in B

Agonimia pacifica (Harada) Diederich Aptroot et al. 1997.

Ainoa mooreana (Carroll) Lumbsch & I. Schmidt Aptroot & Sipman 1991.

Alectoria ochroleuca (Hoffm.) A. Massal. Streimann 1986.

Amygdalaria aeolotera (Vain.) Hertel & Brodo Hertel 1987.

Ancistrosporella australiensis (Thor) Thor Egea, Sérusiaux & Torrente 1996.

A. curvata (Aptroot) Komposch Komposch, Aptroot & Hafellner 2002.

Anisomeridium anastomosans Aptroot Aptroot et al. 1997.

A. anisobolus (Müll. Arg.) Aptroot Aptroot et al. 1997.

A. bifurca (Borrer) R.C. Harris Aptroot et al. 1997.

A. consobrinum (Nyl.) Aptroot Aptroot et al. 1997.

A. foliicola R. Sant. & Tibell Aptroot et al. 1997.

A. subnexum (Nyl.) Aptroot Aptroot et al. 1997.

A. subprostans (Nyl.) R.C. Harris Aptroot et al. 1997.

A. subtruncatum Aptroot Aptroot et al. 1997.

A. tamarindi (Fée) R.C. Harris Aptroot et al. 1997.

A. terminatum (Nyl.) R.C. Harris Aptroot et al. 1997.

A. truncatum (Müll. Arg.) R.C. Harris Aptroot et al. 1997.

Anthracothecium australiensis (Müll. Arg.) Aptroot Aptroot et al. 1997.

A. macrosporum (Hepp) Müll. Arg. Aptroot et al. 1995 (as *A. columellatum* (Vain.) Zahlbr.).

A. prasinum (Eschw.) R.C. Harris Aptroot et al. 1997.

Anzia *afromontana* R. Sant. Yoshimura, Sipman & Aptroot 1995.
A. americana Yoshim. & Sharp Yoshimura, Sipman & Aptroot 1995.
A. corallophora Yoshim. Yoshimura, Sipman & Aptroot 1995.
A. endoflavida Yoshim. & Sipman Yoshimura, Sipman & Aptroot 1995.
A. gregoriana Müll. Arg. Yoshimura, Sipman & Aptroot 1995.
A. isidiolenta Diederich & Sipman Yoshimura, Sipman & Aptroot 1995.
A. isidiosa Yoshim. Yoshimura, Sipman & Aptroot 1995.
A. niuginiensis Elix Elix 1997.
A. ornatoides Yoshim. Yoshimura, Sipman & Aptroot 1995.
A. pseudoangustata Yoshim. & Sipman Yoshimura, Sipman & Aptroot 1995.
A. pseudopustulata Sipman Yoshimura, Sipman & Aptroot 1995.
A. pustulata Yoshim. Yoshimura, Sipman & Aptroot 1995.
A. semiteres (Mont. & v.d. Bosch) Stiz. Yoshimura, Sipman & Aptroot 1995.
Aptrootia *terricola* (Aptroot) Lücking, Umana & Chaves Aptroot 1999 (as *Thelenella terricola* Aptroot)
Arthonia *antillarum* (Fée) Nyl. Streimann 1986.
A. arthoniicola Diederich & Aptroot Aptroot et al. 1995.
A. catenulata Ach. Aptroot et al. 1995.
A. cinnabarina (DC.) Wallr. Streimann 1986.
A. collectiva Stirton Aptroot et al. 1997.
A. complanata Fée Aptroot et al. 1997.
A. conferta (Fée) Nyl. Aptroot et al. 1997.
A. cyanea Müll. Arg. Aptroot & Sipman 1991.
A. dispersula Nyl. Aptroot et al. 1997.
A. leptosperma (Müll. Arg.) R. Sant. Aptroot & Sipman 1991.
A. meizomorpha Nyl. Streimann 1986.
A. oceania Zahlbr. Streimann 1986.
A. pelvetii (Hepp) Arnold Aptroot et al. 1997.
A. picea Vain. Aptroot et al. 1997.
A. polymorphoides Nyl. Streimann 1986.
A. rechingeri Zahlbr. Streimann 1986.
A. rimeliicola Diederich Aptroot et al. 1997.
A. trilocularis Müll. Arg. Streimann 1986.
Arthopyrenia *antecellans* (Nyl.) Arnold Aptroot et al. 1997.
A. cinchonae (Ach.) Müll. Arg. Aptroot et al. 1995.
A. malaccitula (Nyl.) Zahlbr. Aptroot et al. 1997.
A. novaeguineae Szatala Aptroot et al. 1997.
A. planorbis (Ach.) Müll. Arg. Aptroot et al. 1997.
A. salicis A. Massal. Aptroot et al. 1997.
Arthothelium *ampliatum* (C. Knight & Mitten) Müll. Arg. Streimann 1986.
A. oasis A. Massal. Streimann 1986.
A. spadiceum (C. Knight) Müll. Arg. Streimann 1986.
Arthrorhaphis *alpina* (Schaer.) R. Sant. Streimann 1986.
A. citrinella (Ach.) Poelt Streimann 1986.
Aspidothelium *cinerascens* Vain. Aptroot & Sipman 1991.
A. fugiens (Müll. Arg.) R. Sant. Aptroot & Sipman 1993.
A. gemmiferum Sérusiaux & Lücking Sérusiaux & Lücking 2001.
A. verruculosum R. Sant. Streimann 1986.
Asterothyrium *decipiens* (Rehm) R. Sant. Aptroot et al. 1997.
A. microsporum R. Sant. Aptroot et al. 1997.
A. pittieri Müll. Arg. Streimann 1986.
Astrothelium *galbineum* Krempelh. Aptroot et al. 1997.
A. ocellatum Malme Aptroot et al. 1997.
A. subfuscum Krempelh. Aptroot 1998.
A. versicolor Müll. Arg. Aptroot (sse above).

Aulaxina dictyospora R. Sant. Aptroot et al. 1997.
 A. epiphylla (Zahlbr.) R. Sant. Aptroot et al. 1997.
 A. microphana (Vain.) R. Sant. Aptroot et al. 1997.
 A. opegraphina Fée Aptroot et al. 1997.
 A. unispora Sérus. Aptroot et al. 1997.
Auriculora byssomorpha (Nyl.) Kalb Aptroot et al. 1997.
Australiaena streimannii Matzer, Mayrhofer & Elix Matzer, Mayrhofer & Elix 1997.
Bacidia africana Vězda Aptroot & Sipman 1993.
 B. mastothallina Vain. Streimann 1986.
 B. micrommata (Krempelh.) R. Sant.
Bacidina apiahica (Müll. Arg.) Vězda Aptroot & Sipman 1993.
 B. mirabilis (Vězda) Vězda Streimann 1986.
 B. streimannii Vězda Vězda 1994.
Bactrospora leptoloma (Müll. Arg.) Egea & Torrente Aptroot et al. 1995.
 B. metabola (Nyl.) Egea & Torrente Aptroot et al. 1995.
Badimia elegans (Vain.) Vězda Aptroot et al. 1997.
 B. lucida Aptroot & Sérus. Aptroot et al. 1997.
 B. polillensis (Vain.) Vězda Aptroot et al. 1997.
 B. vieillardii (Müll. Arg.) Vězda Aptroot et al. 1997.
Baeomyces heteromorphus Nyl. Streimann 1986.
 B. marginalis Sipman & Aptroot Aptroot et al. 1997.
 B. trachypus Nyl. Streimann 1986.
Bapalmuia marginalis (Vain.) Sérus. Aptroot et al. 1997.
 B. variratae Sérus. Kalb, Lücking & Sérusiaux 2000.
Biatoropsis usnearum Räsänen Diederich & Christiansen 1994.
Biciliopsis leptogiicola Diederich Aptroot et al. 1997.
Bispora christiansenii D. Hawksw. Aptroot et al. 1997.
 B. lichenum Diederich Aptroot et al. 1997.
Brigantiaea leucoxantha (Sprengel) R. Sant. & Hafellner Aptroot & Sipman 1991.
 B. lobulata F.J. Walker & Hafellner Aptroot et al. 1997.
 B. tricolor (Mont.) Trevis Hafellner 1997.
Bryophagus minutissima (Vězda) D. Hawksw. Streimann 1986.
Bryoria dahlii (P.M. Jørg.) Brodo & D. Hawksw. Streimann 1986.
 B. indonesica (P.M. Jørg.) Brodo & D. Hawksw. Streimann 1986.
Buellia adaucta Malme Marbach 2000 (sub Stigmatochroma).
 B. aethalea (Ach.) Th. Fr. Aptroot et al. 1997.
 B. americana (Fée) Zahlbr. Marbach 2000 (sub Cratiria).
 B. analgifera Aptroot & Diederich Aptroot et al. 1997.
 B. brugierae Vain. Marbach 2000 (sub Amandinea).
 B. curatellae Malme Marbach 2000 (sub Hafellia).
 B. dissa (Stirton) Zahlbr. Aptroot & Sipman 1991 (as Hafellia).
 B. dissimilis (Nyl.) Müll. Arg. Marbach 2000 (sub Cratiria; as B. corallizans Zahlbr. in Aptroot et al. 1997).
 B. efflorescens Müll. Arg. Aptroot & Sipman 1991.
 B. epimarta Malme Aptroot & Sipman 1991.
 B. hypothallina Aptroot Aptroot et al. 1997.
 B. lauricassiae (Fée) Müll. Arg. Streimann 1986.
 B. lauricassiaeoides Aptroot Aptroot et al. 1997.
 B. manamiana Diederich Aptroot et al. 1997.
 B. melanochlora (Krempelh.) Müll. Arg. Marbach 2000 (sub Cratiria).
 B. metaleptodes (Nyl.) G. Pant & D.D. Awasthi Marbach 2000 (sub Stigmatochroma).
 B. pulchella Tuck. Streimann 1986.
 B. submuriformis Aptroot & Diederich Aptroot et al. 1997.
Buelliella dirinariae Diederich & Aptroot Aptroot et al. 1997.
Bulbothrix goebelii (Zenker) Hale Streimann 1986.

B. isidiza (Nyl.) Hale Streimann 1986.
B. subinflata (Hale) Hale Streimann 1986.
B. tabacina (Mont. & v.d. Bosch) Hale Streimann 1986.
B. tuskiformis Elix Elix 1997.
Bullatina *aspidota* (Vain.) Vězda & Poelt Streimann 1986.
Bunodophoron *coomerense* (Ohlsson) Wedin Aptroot et al. 1997.
B. diplotypus (Vain.) Wedin Tibell 1987.
B. murrayi (Ohlsson) Wedin Tibell 1987.
B. patagonicus (C.W. Dodge) Wedin Tibell 1987.
Byssolecania *fumosonigricans* (Müll. Arg.) R. Sant. Streimann 1986.
Byssoloma *arboricola* Sérus. & Aptroot Aptroot et al. 1997.
B. dimerelloides Sipman & Aptroot Aptroot et al. 1997.
B. discordans (Vain.) Zahlbr. Aptroot et al. 1997.
B. gahavisukanum Sérus. Aptroot et al. 1997.
B. leucoblepharum (Nyl.) Vain. Streimann 1986.
B. lueckingii Sérus. Sérusiaux 1995.
B. microcarpum Kalb & Vězda Aptroot et al. 1997.
B. minutissimum Kalb & Vězda Aptroot et al. 1997.
B. murinum Vězda Aptroot & Sipman 1993.
B. subdiscordans (Nyl.) P. James Streimann 1986.
Calathaspis *devexa* I.M. Lamb & W.A. Weber Aptroot et al. 1997.
Calenia *depressa* Müll. Arg. Streimann 1986.
C. flava Lücking, Sérus. & Sipman Lücking, Sérus. & Sipman (2000).
C. graphidea Vain. Streimann 1986.
C. phyllogena (Müll. Arg.) R. Sant. Aptroot & Sipman 1993.
C. thelotrematella Vain. Streimann 1986.
Calicium *abietinum* Pers. Tibell 1987.
C. bullatum Aptroot & Tibell Aptroot et al. 1997.
C. glaucellum Ach. Tibell 1987.
C. hyperelloides Nyl. Aptroot et al. 1997.
C. lenticulare Ach. Tibell 1987.
C. salicinum Pers. Tibell 1987.
C. tricolor F. Wilson Tibell 1987.
Calopadia *fusca* (Müll. Arg.) Vězda Streimann 1986.
C. nymanii (R. Sant.) Vězda Streimann 1986.
C. phyllogena (Müll. Arg.) Vězda Streimann 1986.
C. puiggarii (Müll. Arg.) Vězda Streimann 1986.
C. subcaerulescens (Zahlbr.) Vězda Streimann 1986.
C. vermiculifera (Vain.) Sérus. Aptroot et al. 1997.
Caloplaca *brebissonii* (Fée) Hafellner & Poelt Aptroot & Sipman 1991.
C. byrsonimae Malme Aptroot et al. 1995.
C. crocea (Krempelh.) Hafellner & Poelt Aptroot et al. 1997.
Campylothelium *nitidum* Müll. Arg. Aptroot et al. 1997.
Candelaria *crawfordii* (Müll. Arg.) P.M. Jørg. & D. Galloway Aptroot & Sipman 1991.
Candelariella *reflexa* (Nyl.) Lettau Aptroot & Sipman 1991.
C. vitellina (Hoffm.) Müll. Arg. Aptroot & Sipman 1991.
Canomaculina *subsumpta* (Nyl.) Elix Streimann 1986.
Canoparmelia *adspersa* (Vain.) Elix & Hale Aptroot & Sipman 1991.
C. texana (Taylor) Elix & Hale Streimann 1986.
Caprettia *nyssaegenoides* Sérus. & Lücking Sérusiaux & Lücking 2003
Capronia *baeomycetis* Diederich Aptroot et al. 1997.
C. hypotrachynae Etayo & Diederich Etayo & Diederich 1998.
C. normandinae R. Sant. & D. Hawksw. Aptroot et al. 1997.
C. pseudonormandinae Diederich Aptroot et al. 1997.
Carbacanthographis *amicta* (Nyl.) Staiger & Kalb www.tropicallichens.net specimen in B

C. papuaensis Archer www.tropicallichens.net specimen in B
Carbonea intrusa (Th. Fr.) Rambold & Triebel Aptroot et al. 1997.
Catapyrenium lachneum (Ach.) R. Sant. Aptroot & Sipman 1991.
C. squamulosum (Ach.) Breuss Aptroot et al. 1997.
Catarraphia dictyoplaca (Mont. & v.d.Bosch) A. Massal. Egea, Sérusiaux & Torrente 1996.
Celothelium cinchonarum (Müll. Arg.) Vain. Aptroot et al. 1997.
C. dominicanum (Vain.) B. Aguirre Aptroot et al. 1997.
Cetraria islandica (L.) Ach. Streimann 1986.
C. nigricans Nyl. Streimann 1986.
C. nivalis (L.) Ach. Kärnefelt & Thell 1993.
Cetrelia braunsiana (Müll. Arg.) W. Culb. & C. Culb. Aptroot et al. 1997.
C. chicitae (W. Culb.) W. Culb. & C. Culb. Aptroot et al. 1997.
C. japonica (Zahlbr.) W. Culb. & C. Culb. Aptroot et al. 1997.
C. olivetorum (Nyl.) W. Culb. & C. Culb. Aptroot et al. 1997.
C. sanguinea (Schaer.) W. Culb. & C. Culb. Aptroot et al. 1997.
Cetrellopsis papuae Randl. & Saag Randlane, Thell & Saag 1995.
Chaenotheca brachypoda (Ach.) Tibell Aptroot & Sipman 1991.
C. brunneola (Ach.) Müll. Arg. Tibell 1987.
C. chlorella (Ach.) Müll. Arg. Streimann 1990.
C. chrysocephala (Turner ex Ach.) Th. Fr. Streimann 1990.
C. degelii Tibell Tibell 1987.
C. gracillima (Vain.) Tibell Streimann 1990.
C. papuensis Aptroot & Tibell Aptroot & Tibell 2003.
C. stemonea (Ach.) Müll. Arg. Tibell 1987.
Chaenothecopsis pilosa Tibell & Kalb Tibell & Ryman 1995.
C. pusilla (Ach.) A. Schmidt Streimann 1990.
Chiodecton congestulum Nyl. Aptroot et al. 1997.
C. leptosporum Müll. Arg. Thor 1990.
Chroodiscus mirificus (Krempelh.) R. Sant. Aptroot & Sipman 1993.
Chrysothrix candelaris (L.) J.R. Laundon Streimann 1990.
C. xanthina (Vain.) Kalb Kalb 2004
Cladia aggregata (Sw.) Nyl. Stenroos 1986-88.
Cladina halei Ahti Stenroos 1986-88.
C. rangiferina (L.) Nyl. ssp. abbayesii (Ahti) W. Culb. Stenroos 1986-88.
Cladonia chlorophaea (Floerke ex Sommerf.) Sprengel Stenroos 1986-88.
C. coccifera (L.) Willd. Stenroos 1986-88.
C. corniculata Ahti & Kashiwadani Stenroos 1986-88.
C. corymbescens Nyl. Stenroos 1986-88.
C. crispata (Ach.) Flotow Stenroos 1986-88.
C. didyma (Fée) Vain. Stenroos 1986-88.
C. fenestralis Nuno Stenroos 1986-88.
C. floerkeana (Fr.) Floerke Stenroos 1986-88.
C. fruticulosa Krempelh. Stenroos 1986-88.
C. gymnopoda Vain. Stenroos 1986-88.
C. macilenta Hoffm. Stenroos 1986-88.
C. macrophylla (Schaer.) Stenh. Stenroos 1986-88.
C. melanocaulis Stenroos Stenroos 1986-88.
C. ochrochlora Floerke Stenroos 1986-88.
C. papuana Stenroos Stenroos 1986-88.
C. peziziformis (With.) J.R. Laundon Stenroos 1986-88.
C. phyllopoda (Vain.) Stenroos Stenroos 1986-88.
C. pocillum (Ach.) O.- J. Rich. Stenroos 1986-88.
C. poeciloclada des Abb. Stenroos 1986-88.
C. polycarpoides Nyl. Aptroot 1998.
C. ramulosa (With.) J.R. Laundon Stenroos 1986-88.

C. rappii Evans Stenroos 1986-88.
C. scabriuscula (Delise) Nyl. Stenroos 1986-88.
C. squamosa (Scop.) Hoffm. Stenroos 1986-88.
C. subradiata (Vain.) Sandst. Stenroos 1986-88.
C. subsquamosa Krempelh. Stenroos 1986-88.
C. vulcani Savicz Stenroos 1986-88.
C. weymouthii F. Wilson ex A.W. Archer Stenroos 1986-88.
C. yunnana (Vain.) des Abb. Stenroos 1986-88.
Clathroporina *biroi* Szatala Aptroot et al. 1997.
C. eminentior (Nyl.) Müll. Arg. Aptroot 1998.
C. exocha (Nyl.) Müll. Arg. Aptroot et al. 1997.
Coccocarpia *adnata* L. Arvidsson Streimann 1986.
C. aeruginosa Müll. Arg. Streimann 1986.
C. dissecta Swinscow & Krog Aptroot et al. 1997.
C. domingensis Vain. Aptroot & Sipman 1991.
C. erythrocardia (Müll. Arg.) L. Arvidsson
C. erythroxyli (Sprengel) Swinscow & Krog
C. glaucina Krempelh. Streimann 1986.
C. palmicola (Sprengel) L. Arvidsson & D. Galloway
C. pellita (Ach.) Müll. Arg. Streimann 1986.
C. pruinosa L. Arvidsson Streimann 1986.
C. rottleri (Ach.) L. Arvidsson Streimann 1986.
C. smaragdina Pers. Streimann 1986.
C. tenuissima Müll. Arg. www.tropicallichens.net specimen in BM
Coccotrema *porinopsis* (Nyl.) Imsh. ex Yoshim. Streimann & Sipman 1994.
Coenogonium *dilucidum* (Krempelh.) Kalb & Lücking Streimann 1986.
C. fallaciosum (Müll. Arg.) Kalb & Lücking Aptroot & Sipman 1993.
C. hypophyllum (Vězda) Kalb & Lücking Aptroot & Sipman 1993.
C. leprieurii (Mont.) Nyl. Streimann 1986.
C. linkii Ehrenb. Aptroot & Sipman 1991.
C. lisowskii (Vězda) Lücking Aptroot & Sipman 1993.
C. luteum (Dickson) Kalb & Lücking Aptroot & Sipman 1991.
C. piliferum (Vězda) Kalb & Lücking Vězda 1994.
C. subluteum (Rehm) Kalb & Lücking Streimann 1986.
C. weberi (Vězda) Lücking, Aptroot & Sipman Streimann 1986.
Collema *actinoptychum* Nyl. Streimann 1986.
C. coilocarpum (Müll. Arg.) Zahlbr. Streimann & Sipman 1994.
C. chimbuense Degel. Degelius 1994.
C. fasciculare (L.) Wigg. (var. *microcarpum* (Müll. Arg.) Degel.) Aptroot et al. 1997.
C. japonicum (Müll. Arg.) Hue Streimann 1990.
C. leptaleum Tuck. (incl. var. *biliosum*) Streimann 1986.
C. papuanorum Degel. Aptroot et al. 1997.
C. rugosum Krempelh. Streimann 1990.
C. subconveniens Nyl. Aptroot et al. 1997.
Compsocladium *archboldianum* I.M. Lamb Streimann 1986.
Conotrema *lumbricoides* Sipman Aptroot et al. 1997.
Cresponea *apiculata* Egea, Sérus. & Torrente Egea, Sérusiaux & Torrente 1996.
C. flava (Vain.) Egea & Torrente Egea & Torrente 1993.
C. leprieurii (Mont.) Egea & Torrente Egea, Sérusiaux & Torrente 1996.
C. leprieurioides (Nyl.) Egea & Torrente Egea, Sérusiaux & Torrente 1996.
C. macrocarpoides (Zahlbr.) Egea & Torrente Egea, Sérusiaux & Torrente 1996.
C. proximata (Nyl.) Egea & Torrente Aptroot et al. 1995.
Crocynia *gossypina* (Sw.) A. Massal. Streimann 1986.
C. pyxinoides Nyl. Aptroot & Sipman 1991.
Crustospathula *cartilaginea* Aptroot Aptroot 1998.

Cryptolechia subincolorella (Nyl.) D. Hawksw. Aptroot et al. 1997.
Cryptothecia aleurella (Nyl.) Makhija & Patw. Aptroot et al. 1997.
C. candida (Krempelh.) R. Sant. Streimann 1986.
C. lunulata (Zahlbr.) Makhija & Patw. Aptroot et al. 1995.
C. rubrocincta (Nyl.) G. Thor Streimann 1986.
C. scripta G. Thor Thor 1997.
C. subnidulans Stirton Aptroot et al. 1997.
Cyphellostereum pusiolum (Berkely & Curtis) Reid Aptroot & Sipman 1991.
Davidgallowaya cornutispora Aptroot Aptroot 2007
Degelia minor Sipman & Aptroot Aptroot et al. 1997.
D. sorediata Aptroot Aptroot et al. 1997.
Dibaeis holstii (Müll. Arg.) Kalb & Gierl Aptroot 1998.
D. inaequalis Kalb & Gierl Gierl & Kalb 1993.
D. sorediata Kalb & Gierl Gierl & Kalb 1993.
D. weberi (Thomson) Kalb & Gierl Gierl & Kalb 1993.
Dichosporidium boschianum (Mont.) G. Thor Thor 1990.
D. constrictum G. Thor Thor 1990.
D. sorediatum G. Thor Thor 1990.
Dictyonema irpicinum Mont. Streimann 1986.
D. ligulatum (Krempelh.) Zahlbr. Streimann 1986.
D. moorei (Nyl.) A. Henssen Hoffmann & Büdel 1992.
D. sericeum (Sw.) Berkeley Streimann 1986.
Diorygma hieroglyphicum (Pers.) Staiger & Kalb Kalb, Staiger & Elix 2004
D. hololeucum (Mont.) Staiger & Kalb Kalb, Staiger & Elix 2004
D. macgregorii (Vain.) Staiger & Kalb Kalb, Staiger & Elix 2004
D. pruinoseum (Eschw.) Staiger & Kalb Kalb, Staiger & Elix 2004
D. rufopruinosum (Archer) Staiger & Kalb Kalb, Staiger & Elix 2004
Diploschistes muscorum (Scop.) R. Sant. ssp. bartlettii Lumbsch Aptroot et al. 1997.
D. rampoddensis (Nyl.) Zahlbr. Aptroot et al. 1997.
Dirinaria aegialita (Afz. in Ach.) Moore Streimann 1990.
D. applanata (Fée) D.D. Awasthi Streimann 1990.
D. confluens (Fr.) D.D. Awasthi Aptroot & Sipman 1991.
D. papillulifera (Nyl.) D.D. Awasthi Aptroot & Sipman 1991.
D. picta (Sw.) Clem. & Shear Aptroot et al. 1995.
D. purpurascens (Vain.) A. Moore Aptroot & Sipman 1991.
Dyplolabia afzelii (Ach.) Massal Streimann 1986.
Echinoplaca diffluens (Müll. Arg.) R. Sant. Aptroot & Sipman 1993.
E. epiphylla Fée Streimann 1986.
E. hispida Sipman Aptroot et al. 1997.
E. incrustatociliata Sérus. Aptroot et al. 1997.
E. leucotrichoides (Vain.) R. Sant. ex Thorold Streimann 1986.
E. pellicula (Müll. Arg.) R. Sant. Streimann 1986.
E. streimannii Sérus. Aptroot et al. 1997.
Encephalographa anthracothecii Diederich Aptroot et al. 1997.
Endocarpon pusillum Hedw. Aptroot & Sipman 1991.
Endococcus alpestris D. Hawksw. Aptroot et al. 1997.
Enterographa anguinella (Nyl.) Redinger Sparrius 2004.
E. deslooveri Sérus. Aptroot et al. 1995.
E. divergens (Nyl.) Redinger Sparrius 2004.
E. mazosiae R. Sant. ex Matzer & R. Sant. Matzer 1996.
E. multiseptata R. Sant. Aptroot et al. 1995.
E. pallidella (Nyl.) Redinger Aptroot et al. 1995.
E. subsimilis (Nyl.) Redinger Sparrius 2004.
Eremothecella calamicola Sydow Streimann 1986.
E. macrosperma (Zahlbr.) Sérus. Streimann 1986.

E. palmulacea (Müll. Arg.) Sérus. Streimann 1986.
E. variratae (Sipman & Aptroot) Sérus. Aptroot & Sipman 1991.
Erioderma *confusum* P.M. Jørg. & Sipman Jørgensen & Sipman 2002a.
E. coriaceum P.M. Jørg. & Sipman Jørgensen & Sipman 2002a.
E. gloriosum P.M. Jørg. & L. Arvidsson Jørgensen & Sipman 2002a.
E. pellitum P.M. Jørg. & Sipman Jørgensen & Sipman 2002a.
E. phaeorhizum Vain. Jørgensen & Sipman 2002a.
E. sorediatum P.M. Jørg. & D. Galloway Jørgensen & Sipman 2002a.
E. tomentosum Hue Jørgensen & Sipman 2002a.
Erythrodictyon *malacum* (Krempelh.) G. Thor Thor 1990.
Euopsis *granatina* (Sommerf.) Nyl. Aptroot et al. 1997.
E. pulvinata (Schaer.) Vain. Aptroot 1998.
Everniastrum *catawbiense* (Dey) Hale ex Sipman Streimann 1986.
E. cirrhatum (Fr.) Hale ex Sipman Streimann 1986.
E. sorocheilum (Vain.) Hale ex Sipman Streimann 1986.
E. vexans (Zahlbr.) Hale ex Sipman Streimann 1986.
Fellhanera *bouteillei* (Desm.) Vězda Streimann 1986.
F. bullata Kalb & Vězda Aptroot et al. 1997.
F. croceoverrucosa Sérus. Aptroot et al. 1997.
F. fuscata (Müll. Arg.) Vězda Streimann 1986.
Feltgeniomyces *uniseptatus* Diederich Aptroot et al. 1997.
Fissurina *dumastii* Fée www.tropicallichens.net specimen in ABL
F. triticea (Nyl.) Staiger www.tropicallichens.net specimen in ABL
Flavoparmelia *haysomii* (Dodge) Hale Streimann 1986.
Fuscoderma *papuanorum* P.M. Jørg. & Sipman Jørgensen & Sipman 2002b.
Fuscopannaria *coerulescens* P.M. Jørg. Jørgensen 2000.
F. cacuminum P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
F. dissecta P.M. Jørg. Jørgensen & Sipman 2006.
F. venusta P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
Glyphis *cicatricosa* Ach. Aptroot & Sipman 1991.
G. scyphulifera (Ach.) Staiger Streimann 1990 (as *Gyrostomum scyphuliferum* (Ach.) Nyl.).
Gomphillus *morchelloides* Lücking & Sérus. Lücking & Sérusiaux 2005
G. ophiosporus Kalb & Vězda Aptroot et al. 1997.
Graphidastra *multiformis* (Mont. & v.d. Bosch) G. Thor Thor 1990.
Graphis *anfractuosa* (Eschw.) Eschw. www.tropicallichens.net specimen in B
G. assimilis Nyl. www.tropicallichens.net specimen in B
G. atroclata (Archer) Archer www.tropicallichens.net specimen in B
G. brahmanensis Aptroot Lücking, Archer & Aptroot 2009
G. cervina Müll. Arg. www.tropicallichens.net specimen in B
G. cinnamomea Adaw. & Makhija www.tropicallichens.net
G. consimilis Vain. www.tropicallichens.net specimen in B
G. copelandii Vain. www.tropicallichens.net specimen in B
G. crassilabra Müll. Arg. www.tropicallichens.net specimen in B
G. daintreensis (A.W. Archer) A.W. Archer www.tropicallichens.net specimen in B
G. dealbata Nyl. www.tropicallichens.net specimen in B
G. diplocheila Vain. www.tropicallichens.net specimen in B
G. dracaenae Vain. www.tropicallichens.net specimen in B
G. exalbata Nyl. www.tropicallichens.net specimen in B
G. filiformis Adaw. & Makhija www.tropicallichens.net specimen in B
G. garoana Nagarkar & Patw. www.tropicallichens.net specimen in B
G. immersella Müll. Arg. www.tropicallichens.net specimen in B
G. interspersa Aptroot Lücking, Archer & Aptroot 2009
G. insulana (Müll. Arg.) Lücking & Sipman www.tropicallichens.net specimen in B
G. leptocarpa Fée www.tropicallichens.net specimen in B
G. leptoclada Müll. Arg. www.tropicallichens.net specimen in B

G. leptogramma Nyl. www.tropicallichens.net specimen in B
G. marginata Raddi www.tropicallichens.net specimen in B
G. maritima (A.W. Archer) A.W. Archer www.tropicallichens.net specimen in B
G. myolensis Aptroot Lücking, Archer & Aptroot 2009
G. nadurina Aptroot Lücking, Archer & Aptroot 2009
G. nanodes Vain. www.tropicallichens.net specimen in B
G. negrosina (Vain.) Lücking www.tropicallichens.net specimen in B
G. palmyrensis Zahlbr. www.tropicallichens.net specimen in B
G. persicina Meyen & Flotow www.tropicallichens.net specimen in B
G. phaeospora Vain. www.tropicallichens.net specimen in B
G. propinqua Müll. Arg. www.tropicallichens.net specimen in B
G. saxicola (Müll. Arg.) A.W. Archer www.tropicallichens.net specimen in B
G. stipitata A.W. Archer www.tropicallichens.net specimen in B
G. subasahinae Nagarkar & Patw. www.tropicallichens.net specimen in B
G. subassimilis Müll. Arg. www.tropicallichens.net specimen in B
G. subintermedians Hale ex Lücking www.tropicallichens.net specimen in B
G. subvelata Stirton www.tropicallichens.net specimen in B
G. tenella Ach. www.tropicallichens.net specimen in B
G. tenuirima (Shirley) A.W. Archer www.tropicallichens.net specimen in B
G. vittata Müll. Arg. www.tropicallichens.net specimen in B
Gylectidium *causicum* (Elenkin & Woronichin) Vězda Aptroot & Sipman 1993.
G. filicinum Müll. Arg. Streimann 1986.
G. flabellatum Sérus. Ferraro, Lücking & Sérusiaux 2001.
G. fuscum Lücking & Sérus. Ferraro, Lücking & Sérusiaux 2001.
G. gahavisukanum Sérus. Ferraro, Lücking & Sérusiaux 2001.
G. microcarpum (Vězda) Lücking, Sérus. & Vězda Ferraro, Lücking & Sérusiaux 2001.
G. novoguineense Sérus. Ferraro, Lücking & Sérusiaux 2001.
G. pandani Vězda Vězda 2007
G. verruculosum Sérus. Ferraro, Lücking & Sérusiaux 2001.
G. yahrae Buck & Sérus. Buck & Sérusiaux 2002.
Gyalidea *epiphylla* Vězda Streimann 1986.
G. luzonensis (Kalb & Vězda) Aptroot & Lücking Aptroot & Lücking 2003.
G. multisporea Lumbsch & Vězda Aptroot & Sipman 1991.
G. novaeguineae P. James & Vězda Streimann 1986.
Gyalideopsis *cochlearifer* Lücking & Sérus. Lücking & Sérusiaux 1998.
G. graminicola Vězda & Kantvilas Aptroot et al. 1997.
G. perlucida Vězda & Hafellner Aptroot et al. 1997.
G. rubescens Vězda Streimann 1986.
G. verruculosa Vězda & Hafellner Aptroot et al. 1997.
Gymnographa *heterospora* (Nyl.) Staiger www.tropicallichens.net specimen in B
Haematomma *africanum* (Steiner) C.W. Dodge Staiger & Kalb 1995.
H. collatum (Stirton) C.W. Dodge Staiger & Kalb 1995.
H. papuense Kalb & Staiger Staiger & Kalb 1995.
H. rufidulum (Fée) A. Massal. Staiger & Kalb 1995.
H. sorediatum R.W. Rogers Aptroot 1998.
H. wattii (Stirton) Zahlbr. Aptroot & Sipman 1991.
Hemigrapha *pseudocyphellariae* Diederich & Wedin Diederich & Wedin 2000.
Heterodermia *antillarum* (Vain.) Swinscow & Krog Aptroot et al. 1997.
H. casarettiana (A. Massal.) Trevis. Aptroot & Sipman 1991.
H. comosa (Eschw.) Follm. & Redón Streimann 1986.
H. dactyliza (Nyl.) Swinscow & Krog Streimann 1990.
H. diademata (Taylor) D.D. Awasthi Streimann 1986.
H. flabellata (Fée) D.D. Awasthi Aptroot & Sipman 1991.
H. galactophylla (Tuck.) W. Culb. Streimann 1986.
H. hypoleuca (Ach.) Trevis. Aptroot & Sipman 1991.

H. isidiophora (Nyl.) D.D. Awasthi Streimann 1986.
H. japonica (Satô) Swinscow & Krog Streimann 1986.
H. leucomela (L.) Poelt Streimann 1986.
H. lutescens (Kurok.) Follm. Streimann 1986.
H. magellanica (Zahlbr.) Swinscow & Krog Aptroot et al. 1997.
H. microphylla (Kurok.) Swinscow & Krog Aptroot & Sipman 1991.
H. obscurata (Nyl.) Trevis. Streimann 1986.
H. papuana Aptroot & Sipman Aptroot & Sipman 1991.
H. podocarpa (Bél.) D.D. Awasthi Streimann 1986.
H. speciosa (Wulfen) Trevis. Streimann 1986.
H. verrucifera (Kurok.) W.A. Weber Aptroot & Sipman 1991.
Hemithecium *balbisii* (Fée) Trevis. www.tropicallichens.net specimen in B
H. chlorocarpoides (Nyl.) Staiger Streimann 1986 (as *Phaeographina chlorocarpoides* (Nyl.) Zahlbr.)
H. laubertianum (Fée) Staiger www.tropicallichens.net specimen in B
Hippocrepeidea *nigra* Sérus. Aptroot et al. 1997.
Hyperphyscia *adglutinata* (Floerke) H. Mayrhofer & Poelt Aptroot & Sipman 1991.
Hypogymnia *lugubris* (Pers.) Krog Elix & Jenkins 1989.
H. pectinatula Zahlbr. Elix & Jenkins 1989.
H. pseudobitteriana (D.D. Awasthi) D.D. Awasthi Elix & Jenkins 1989.
H. vittata (Ach.) Gasilien Elix & Jenkins 1989.
H. zeylanica (R. Sant.) D.D. Awasthi & K.P. Singh Elix & Jenkins 1989.
Hypotrachyna *addita* (Hale) Hale Streimann 1986.
H. adducta (Nyl.) Hale Streimann 1986.
H. adjuncta (Hale) Hale Louwhoff & Elix 2002.
H. andensis Hale Louwhoff & Elix 2002.
H. brevirhiza (Kurok.) Hale Aptroot & Sipman 1991.
H. consimilis (Vain.) Hale Streimann 1986.
H. corneola Kurok. & K.H. Moon Kurok. & K.H. Moon 2000.
H. costaricensis (Nyl.) Hale Streimann 1986.
H. endochlora (Leighton) Hale Streimann 1986.
H. exsecta (Taylor) Hale Streimann 1986.
H. galbinica Elix, Laily & Wahid Louwhoff & Elix 2002.
H. hnatiukii Louwhoff & Elix Louwhoff & Elix 2002.
H. imbricatula (Zahlbr.) Hale Streimann 1986.
H. immaculata (Kurok.) Hale Louwhoff & Elix 2002.
H. koyaensis (Asah.) Hale Louwhoff & Elix 2002.
H. lichesterinica Louwhoff & Elix Louwhoff & Elix 2002.
H. majoris (Vain.) Hale Streimann 1986.
H. malesiana Louwhoff & Elix Louwhoff & Elix 2002.
H. meyeri (Zahlbr.) Streim. Streimann 1986.
H. microblasta (Vain.) Hale Streimann 1986.
H. monticola Louwhoff & Elix Louwhoff & Elix 2002.
H. munduai Louwhoff & Elix Louwhoff & Elix 2002.
H. neodigitata Kurok. & K.H. Moon Kurok. & K.H. Moon 2000.
H. orientalis (Hale) Hale Streimann 1990.
H. osseoalba (Vain.) Park & Hale Streimann 1986.
H. peruviana (Nyl.) Hale Louwhoff & Elix 2002.
H. pseudosinuosa (Asah.) Hale Aptroot & Sipman 1991.
H. quaesita (Kurok.) DePriest & B. Hale Louwhoff & Elix 2002.
H. radiculata (Kurk.) Elix Louwhoff & Elix 2002.
H. reducens (Nyl.) Hale Streimann 1986.
H. revoluta (Flörke) Hale Streimann 1986.
H. rockii (Zahlbr.) Hale Streimann 1986.
H. simbuensis Elix Louwhoff & Elix 2002.

H. sinuosa (Sm.) Hale Streimann 1986.
H. subphysodolica (Hale) Hale Louwhoff & Elix 2002.
H. tariensis Elix Elix 1995.
H. terricola Elix Elix 1997.
H. toiana Elix Louwhoff & Elix 2002.
H. woitapensis (Kurok.) DePriest & B. Hale Louwhoff & Elix 2002.
Ionaspis *tropica* Aptroot Aptroot et al. 1997.
Julella *lactea* (A. Massal.) M.E. Barr Aptroot & v.d.Boom 1995.
J. vitrispora (Cooke & Harkness) M.E. Barr Aptroot & v.d.Boom 1995.
Kroswia *crystallifera* P.M. Jørg. Jørgensen & Sipman 2006.
Lasioloma *arachnoideum* (Krempelh.) R. Sant. Aptroot et al. 1997.
L. phycophilum (Vain.) R. Sant. Aptroot et al. 1997.
L. trichophorum (Vain.) R. Sant. Aptroot et al. 1997.
Laurera *aurantiaca* Makhija & Patw. Aptroot et al. 1997.
L. megasperma (Mont.) Riddle Aptroot & Sipman 1991.
L. meristospora (Mont. & Bosch) Zahlbr. Aptroot et al. 1997.
L. papillosa P.M. McCarthy Aptroot et al. 1997.
Lecanactis *abietina* (Ach.) Körber Egea, Sérusiaux & Torrente 1996.
L. olivascens Egea, Sérus. & Torrente Egea, Sérusiaux & Torrente 1996.
L. platygraphoides (Müll. Arg.) Zahlbr. Egea & Torrente 1994.
Lecanographa *laingiana* Diederich, Egea & Sipman Aptroot et al. 1995.
L. subnothella (Nyl.) Ertz Ertz 2009
Lecanora *dispersogranulata* Szatala Lumbsch 1994.
L. epibryon (Ach.) Ach. ssp. *broccha* (Nyl. in Crombie) Lumbsch Lumbsch 1994.
L. formosula Lumbsch Lumbsch, Feige & Elix 1995.
L. helva Stizenb. Lumbsch 1994.
L. leproplaca Zahlbr. www.tropicallichens.net specimen in BM
L. leprosa Fée Lumbsch 1994.
L. margarodes C. Knight Lumbsch 1994.
L. novaeguineae Lumbsch Lumbsch 1994.
L. pangerangensis Zahlbr. Lumbsch 1994.
L. polytropa (Hoffm.) Rabenh. Aptroot et al. 1997.
L. pseudistera Nyl. Lumbsch 1994.
L. subimmersa (Fée) Zahlbr. ssp. *ramboldii* Lumbsch & Elix Lumbsch 1994.
L. streimannii Lumbsch Lumbsch 1994.
L. sulphurescens Fée Lumbsch 1994.
L. tropica Zahlbr. Lumbsch 1994.
Lecidea *lapicida* (Ach.) Ach. Aptroot et al. 1997.
Lecidella *enteroleucella* (Nyl.) Hertel Hertel 2007
L. sublapicida (C. Knight) Hertel Aptroot et al. 1997.
L. wulfenii (Hepp) Körber Hertel 2007
Leioderma *erythrocarpum* (Delise ex Nyl.) D. Galloway & P.M. Jørg. Jørgensen & Galloway 1989.
L. solediatum D. Galloway & P.M. Jørg. Jørgensen & Galloway 1989.
Leiorreuma *exaltatum* (Mont. & v.d. Bosch) Staiger Streimann 1986 (as *Phaeographis exaltata* (Mont. & v.d. Bosch) Müll. Arg.)
Lepraria *caesioalba* (B. de Lesd.) J.R. Laundon Aptroot et al. 1997.
L. leprolomopsis Diederich & Sérus. Aptroot et al. 1997.
L. nigrocincta Diederich, Sérus. & Aptroot Aptroot et al. 1997.
L. vouauxii (Hue) R.C. Harris Leuckert & Kümmerling 1991.
Leprocaulon *arbuscula* (Nyl.) Nyl. Streimann 1986.
L. pseudoarbuscula (Asah.) I.M. Lamb & Ward Streimann 1986.
Leptogium *asiaticum* Jorg. Aptroot & Sipman 1991.
L. austroamericanum (Malme) C.W. Dodge Streimann & Sipman 1994.
L. azureum (Sw.) Mont. Streimann 1986.

L. azurellum Jatta Streimann 1986.
L. bullatulum Müll. Arg. Verdon 1990.
L. bullatum (Sw.) Mont. Streimann 1986.
L. burgessii (L.) Mont. Streimann 1986.
L. burnetiae C.W. Dodge Aptroot et al. 1997.
L. caesium (Ach.) Vain. Streimann 1986.
L. chloromelum (Ach.) Nyl. Streimann 1986.
L. cochleatum (Dickson) P.M. Jørg. & P. James www.tropicallichens.net specimen in BM
L. coralloideum (Meyen & Flotow) Vain. Verdon 1990.
L. corticola (Taylor) Tuck. www.tropicallichens.net specimen in BM
L. cyanescens (Ach.) Körber Streimann 1986.
L. enkarodes D. Verdon Verdon 1990.
L. fallax Müll. Arg. Streimann 1986.
L. granulans Vain. Streimann & Sipman 1994.
L. incavatum Szatala Streimann 1986.
L. inflatum Müll. Arg. Streimann 1986.
L. javanicum (Mont. & Bosch) Mont. Streimann 1986.
L. laceroides B. de Lesd. Aptroot et al. 1997.
L. loriforme P.M. Jørg. & Kashiw. Jørgensen & Kashiwadani 2008
L. marginellum S. Gray Streimann 1986.
L. millegranum Tuck. www.tropicallichens.net specimen in BM
L. moluccanum (Pers.) Vain. Streimann & Sipman 1994.
L. montis-wilhelmii Diederich & Sipman Aptroot et al. 1997.
L. pedicellatum P.M. Jørg. Aptroot & Sipman 1991.
L. phyllocarpum (Pers.) Mont. Streimann 1986.
L. streimannii Verdon Verdon 1990.
L. subcerebrinum Zahlbr. Streimann 1986.
L. trichophorum Müll. Arg. Verdon, Sipman & Glenney 1996.
Leptosphaerulina *peltigerae* (Fuckel) Riedl Aptroot et al. 1997.
Letrouitia *domingensis* (Pers.) Hafellner & Bellemère Aptroot & Sipman 1991.
L. leprolyta (Nyl.) Hafellner Aptroot et al. 1995.
L. muralis Hafellner Aptroot & Sipman 1991.
L. parabola (Nyl.) R. Sant & Hafellner Streimann 1986.
L. sayeri (Müll. Arg.) Elix Aptroot et al. 1997 (as *L. subvulpina* (Nyl.) Hafellner).
L. transgressa (Malme) Hafellner & Bellemère Streimann 1990.
L. vulpina (Tuck.) Hafellner & Bellemère Aptroot & Sipman 1991.
Lichenochora *bellemerei* Navarro-Rosines, Roux & Diederich Navarro-Rosines, Roux & Diederich 1998.
L. gahavisukae Diederich Aptroot et al. 1997.
Lichenoconium *usneae* (Anzi) D. Hawksw. Aptroot et al. 1997.
Lichenopeltella *bunodophoronis* Diederich Aptroot et al. 1997.
L. epiphylla R. Sant. Aptroot et al. 1997.
L. heterodermiae Diederich Aptroot et al. 1997.
L. hypogymniae Diederich Aptroot et al. 1997.
L. hypotrachynae Diederich Aptroot et al. 1997.
L. leptogii Diederich Aptroot et al. 1997.
L. megalosporae Diederich Aptroot et al. 1997.
L. microspora Diederich Aptroot et al. 1997.
L. pannariacearum Diederich Aptroot et al. 1997.
L. peltigericola (D. Hawksw.) R. Sant. Aptroot et al. 1997.
L. physciae Diederich Aptroot et al. 1997.
L. pseudocyphellariae Diederich Aptroot et al. 1997.
L. ramalinae Etayo & Diederich Aptroot et al. 1997.
Lichenostigma *maureri* Hafellner Aptroot et al. 1997.
Lichenothrix *riddlei* A. Henssen Hoffmann & Büdel 1992.

Linhartia patellarioides (Rehm) Vězda Streimann 1986.
Lithothelium hyalosporum (Nyl.) Aptroot Aptroot 1991a.
 L. obtectum (Müll. Arg.) Aptroot Aptroot et al. 1997.
 L. submuriforme R.C. Harris & Aptroot Aptroot 1998.
Llimoniella pubescens Etayo & Diederich Etayo & Diederich 1998.
Lobaria adscripturiens (Nyl.) Hue Sipman 2004.
 L. clemensiae Vain. Streimann 1986.
 L. crassior Vain. Sipman 2004.
 L. dendrophora Zahlbr. Streimann 1986.
 L. discolor (Bory) Hue Streimann 1986.
 L. endochroma Sipman Sipman 2004.
 L. ferax Vain. Sipman 2004.
 L. hertelii Sipman Sipman 2004.
 L. isidiophora Yoshim. Streimann 1986.
 L. isidiosa (Müller Arg.) Vain. Streimann 1986.
 L. meridionalis Vain. Streimann 1986.
 L. pseudopulmonaria Gyelnik Streimann 1986.
 L. pseudoretigera Sipman. Sipman 2004.
 L. spathulata (Inamuno) Yoshim. Sipman 2004.
 L. subscrobiculata Vain. Streimann 1986.
Loflammea demoulinii Sérus. Sérusiaux 1986.
 L. flammea (Müll. Arg.) Vězda Streimann 1986.
 L. intermedia (R. Sant.) Vězda Aptroot & Sipman 1993.
 L. gabrielis (Müll. Arg.) Vězda Aptroot & Sipman 1993.
Loxospora septata (Sipman & Aptroot) Kantvilas Aptroot et al. 1997 (as Sarrameana septata Sipman & Aptroot).
Lyromma nectandrae Batista & Maia Aptroot et al. 1997.
Macentina perminuta Vězda Aptroot & Sipman 1993.
Malcolmiella aurigera (Fée) Aptroot Aptroot et al. 1995.
 M. granifera (Ach.) Kalb & Lücking Streimann 1986.
Mazaediothecium rubiginum Aptroot Aptroot 1991a.
Mazosia bambusae (Vain.) R. Sant. Streimann 1986.
 M. conica Sérus. Aptroot et al. 1997.
 M. melanophthalma (Müll. Arg.) R. Sant. Streimann 1986.
 M. paupercula (Müll. Arg.) R. Sant. Streimann 1986.
 M. phyllosema (Nyl.) Zahlbr. Streimann 1986.
 M. pilosa Kalb & Vězda Aptroot & Sipman 1993.
 M. rotula (Mont.) A. Massal. Aptroot & Sipman 1993.
Megaloblastenia marginiflexa (J.D. Hooker & Taylor) Sipman Aptroot et al. 1997.
Megalospora albescens Sipman Streimann 1986.
 M. atrorubicans (Nyl.) Zahlbr. Streimann 1986.
 M. coccodes (Bél.) Sipman ssp. nigricans (Müll. Arg.) Sipman Streimann 1986.
 M. granulans Sipman Streimann 1986.
 M. halei Sipman Streimann 1986.
 M. pruinata (Müll. Arg.) Sipman ssp. fusca Sipman Streimann 1986.
 M. sulphurata Meyen Streimann 1986.
 M. tuberculosa (Fée) Sipman Streimann 1986.
 M. weberi Sipman Streimann 1986.
Megalotremis pustulata Aptroot Aptroot et al. 1997.
 M. verrucosa (Makhija & Patw.) Aptroot Aptroot et al. 1997.
Melanelia calva (Essl.) Essl. Aptroot et al. 1997.
Melanophloea pacifica P. James & Vězda Aptroot et al. 1997.
Melaspilea diplasiospora (Nyl.) Müll. Arg. Aptroot 1998.
Menegazzia aekiensis Elix Elix 2007b

M. digitiformis P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. dissoluta P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. efflorescens P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. faminensis Elix Elix 2007a
M. globoisidiata Elix Elix 2007b
M. isidiata P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. malesiana Elix, Bawingan & Schumm Elix, Bawingan & Schumm 2005
M. megathallina P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. menyamyensis Elix Elix 2007b (also as *M. fumarprotocetrarica*)
M. monospora. Bjerke & Sipman Bjerke & Sipman 2007
M. pendula P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. saxicola P. James & Aptroot P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. stellata P. James, Aptroot, Diederich & Sérus. P. James, Aptroot, Diederich, Sipman & Sérusiaux 2001.
M. subsimilis (H. Magn.) R. Sant. Bjerke & Sipman 2007
Micarea *lignaria* (Ach.) Hedl. Aptroot et al. 1997.
Microtheliopsis *uleana* Müll. Arg. Streimann 1986.
Milospium *graphideorum* (Nyl.) D. Hawksw. Aptroot et al. 1997.
Monoblastia *papillosa* Sérus. & Aptroot Sérusiaux & Aptroot 1998.
M. pellucida Aptroot Aptroot 1991b.
Muellerella *lichenicola* (Sommerf.) D. Hawksw. Aptroot et al. 1997.
Mycoblastus *affinis* (Schaer.) Schauer Aptroot et al. 1997.
Mycocalicium *albonigrum* (Nyl.) Tibell Tibell 1987.
M. subtile (Pers.) Szatala Streimann 1990.
Mycomicrothelia *decipiens* (Müll. Arg.) R.C. Harris Aptroot et al. 1997 (as *Ornatopyrenis muriformis*).
M. exigua (Müll. Arg.) D. Hawksw. Aptroot 1991a.
M. obovata (Stirton) D. Hawksw. Aptroot & Sipman 1991.
M. punctata Aptroot Aptroot 1991a.
M. queenslandica (Müll. Arg.) Sipman & Aptroot Aptroot et al. 1997 (as *Ornatopyrenis queenslandica* (Müll. Arg.) Aptroot).
M. subfallens (Müll. Arg.) D. Hawksw. Aptroot 1991a.
Mycoporum *compositum* (A. Massal.) R. C. Harris Aptroot et al. 1997.
M. eschweileri (Müll. Arg.) R.C. Harris Aptroot et al. 1997 (as *Tomasellia eschweileri* (Müll. Arg.) R.C. Harris).
Myelochroa *aurulenta* (Tuck.) Elix & Hale Streimann 1986.
M. nothofagi Elix Elix 1996b.
Myeloconis *erumpens* McCarthy & Elix McCarthy & Elix 1996.
Myriotrema *album* Fée www.bgbm.org/scripts/ASP/lichcol specimen in B
M. bahianum (Ach.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. desquamans (Müll. Arg.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. glaucescens (Nyl.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. hartii (Müll. Arg.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. polytretum Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. protocetraricum (Hale) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. pycnoporellum (Tuck.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. reclusum (Krempelh.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. rugiferum (Harm.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
M. scabridum (Hale) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B

M. terebratulum (Nyl.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
Myxophora ovalispora Nik. Hoffm. & Hafellner Hoffmann & Hafellner 2000.
Nadvornikia hawaiiensis (Tuck.) Tibell Streimann 1990.
Nectria lecanodes Ces. in Rabenh. Aptroot et al. 1997.
Nectriopsis coccocarpiæ Diederich Aptroot et al. 1997.
N. collematis Diederich Aptroot et al. 1997.
N. leptogii Diederich Aptroot et al. 1997.
Neolamya peltigerae (Mont.) Theiss. & Syd. Aptroot et al. 1997.
Nephroma plumbeum (Mont.) Mont. Aptroot et al. 1997.
N. tropicum Zahlbr. Aptroot & Sipman 1991.
Nephromopsis morrisonicola M.J. Lai Randlane & Saag 1998.
N. pallescens (Schaer.) S.Y. Park Randlane & Saag 1998.
Niesslia lobariae Etayo & Diederich Etayo & Diederich 1996.
N. pseudocyphellariae Etayo & Diederich Etayo 2000.
Normandina pulchella (Borrer) Nyl. Aptroot 1990.
N. simodense (Asahina) Aptroot Aptroot 1990.
Ocellularia berkeleyana (Mont.) Zahlbr. www.bgbm.org/scripts/ASP/lichcol specimen in B
O. dolichotata (Nyl.) Zahlbr. www.bgbm.org/scripts/ASP/lichcol specimen in B
O. groenhartii Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
O. marivelensis (Vain.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
O. massalongoi (Mont.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
O. papillata (Leight.) Zahlbr. www.bgbm.org/scripts/ASP/lichcol specimen in B
O. perforata (Müll. Arg.) Zahlbr. www.bgbm.org/scripts/ASP/lichcol specimen in B
O. punctulata (Leight.) Zahlbr. www.bgbm.org/scripts/ASP/lichcol specimen in B
O. sticticum Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
O. thelotremoides (Leight.) Zahlbr. www.bgbm.org/scripts/ASP/lichcol specimen in B
Ochrolechia africana Vain. Aptroot 1998.
O. szatalaensis Verseghe Aptroot 1998.
Opographa apomelaena A. Massal. Aptroot et al. 1995.
O. dekeselii Ertz Ertz 2009.
O. ectolechiacearum Matzer & R. Sant. Matzer 1996.
O. encephalographoidea Diederich & Aptroot Aptroot et al. 1997.
O. filicina Mont. Streimann 1986.
O. herbarum Mont. Ertz 2009.
O. irosina Vain. Ertz 2009.
O. luzonensis Sérus. Aptroot et al. 1997.
O. mazosioides Sérus. Aptroot et al. 1997.
O. medusulina Nyl. Ertz 2009.
O. ochrocheila Nyl. Ertz 2009.
O. physcidiae Kalb & Elix Kalb & Elix 1995.
O. plectocarpoidea Diederich Aptroot et al. 1997.
O. puiggarii Müll. Arg. Streimann 1986.
O. robusta Vain. Streimann & Sipman 1994.
O. simplicior (Nyl.) Nyl. Ertz 2009.
O. subrimulosa Nl. Ertz 2009.
O. subvulgata Nyl. Streimann 1986.
O. trilocularis Müll. Arg. Aptroot et al. 1997 (Ertz 2009 as *O. cf. maldiveana* Ertz).
O. dekeselii Ertz Ertz 2009.
O. varia Pers. Aptroot et al. 1995.
O. viridis (Ach.) Behlen Ertz 2009.
O. viridistellata Sérus., Lücking & Sparrius Sérus., Lücking & Sparrius 2008.
O. vulgata Ach. Ertz 2009.
Orphniospora moriopsis (A. Massal.) D. Hawksw. Aptroot et al. 1997.
Pannaria andina P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. conoplea (Ach.) Bory Jørgensen & Sipman 2006.

P. molkenboeri (Mont.) Hue Jørgensen & Sipman 2006.
P. papuana (Aptroot & Diederich) P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. prolificans Vain. Jørgensen & Sipman 2006.
P. rubiginella P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. sphinctrinum (Mont.) P.M. Jørg. Aptroot et al. 1997.
P. tenuis P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
Pannoparmelia *angustata* (Pers.) Zahlbr. Aptroot & Sipman 1991.
Parapyrenis *lichenicola* Aptroot & Diederich Aptroot et al. 1997.
Parmelia *erumpens* Kurok. Kurokawa 1986.
Parmeliella *brisbanensis* (C. Knight) P.M. Jørg & D. Galloway Streimann & Sipman 1994.
P. endomilta (Vain.) Makhija & Adawadkar Jørgensen & Sipman 2006.
P. flavida P.M. Jørg. Jørgensen & Sipman 2006.
P. foliicola Aptroot & P.M. Jørg. Jørgensen & Sipman 2006.
P. hawaiiensis H. Magn. Jørgensen & Sipman 2006.
P. laceroides P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. mariana (Fries) P.M. Jørg & D. Galloway Streimann & Sipman 1994.
P. montana P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. nitida P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. pannarioides P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. papillata P.M. Jørg. Jørgensen 2001.
P. philippina (Vain.) P.M. Jørg. Jørgensen & Sipman 2006.
P. piundensis P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
P. polyphyllina P.M. Jørg. Jørgensen 2001.
Parmelinella *wallichiana* (Taylor) Elix & Hale Streimann 1986.
Parmelinopsis *afroevoluta* (Krog & Swinscow) Elix & Hale Louwhoff & Elix 2002.
P. cryptochlora (Vain.) Elix & Hale Louwhoff & Elix 2002.
P. horrescens (Taylor) Elix & Hale Louwhoff & Elix 2002.
P. minarum (Vain.) Elix & Hale Streimann 1990.
P. protocetrarica Elix Louwhoff & Elix 2002.
P. spumosa (Asah.) Elix & Hale Aptroot & Sipman 1991.
P. subfatiszens (Kurok.) Elix & Hale Aptroot & Sipman 1991.
Parmotrema *acrotrychum* (Kurok.) Streim. Streimann 1986.
P. andinum (Müll. Arg.) Hale Streimann 1986.
P. austrocetratum Elix & J. Johnst. Louwhoff & Elix 1999.
P. cetratum (Ach.) Hale Louwhoff & Elix 1999.
P. cooperi (Stirton) Sérus. Streimann 1990.
P. corniculans (Nyl.) Hale Streimann 1986.
P. crinitum (Ach.) M. Choisy Streimann 1986.
P. cristiferum (Taylor) Hale Streimann 1986.
P. clavuliferum (Räs.) Streim. Streimann 1986.
P. deflectens (Kurok.) Streim. Streimann 1986.
P. dilatatum (Vain.) Hale Streimann 1986.
P. durumae (Krog & Swinscow) Krog & Swinscow Louwhoff & Elix 1999.
P. elacinulatum (Kurok.) Streim. Streimann 1986.
P. fasciculatum (Vain.) Hale Streimann 1986.
P. flaccidifolium (Kurok.) Streim. Streimann 1986.
P. gardneri (C.W. Dodge) Sérus. Streimann 1990.
P. gloriosum (Kurok.) Streim. Streimann 1986.
P. hypomiltoides (Vain.) Kurok. Louwhoff & Elix 1999.
P. insuetum (Kurok.) Hale Streimann 1986.
P. isidioinsuetum Elix Elix 1995.
P. kainantum Kurok. & K.H. Moon Louwhoff & Elix 1999.
P. kaisenikianum (Kurok.) Streim. Streimann 1986.
P. kurokawianum Louwhoff & Elix Louwhoff & Elix 1999.
P. lambleyei Elix Elix 1995.

P. latissimum (Fée) Hale Streimann 1986.
P. lobulascens (J.Steiner) Hale Elix, Bawingan & Schumm 2005
P. maclayanum (Müll. Arg.) Hale Louwhoff & Elix 1999.
P. madilynnae A. Fletcher Louwhoff & Elix 1999.
P. malonprotocetraricum Louwhoff & Elix Louwhoff & Elix 1999.
P. melanothrix (Mont.) Hale Streimann 1986.
P. mellissii (Dodge) Hale Streimann 1990.
P. menyamyaense Louwhoff & Elix Louwhoff & Elix 1999.
P. merrillii (Vain.) Hale Louwhoff & Elix 1999.
P. nanfongense (Kurok.) DePriest & B. Hale Louwhoff & Elix 1999.
P. naonii Elix, Din & Ismail Elix, Din & Ismail 1997.
P. nilgherrense (Nyl.) Hale Louwhoff & Elix 1999.
P. overeemii (Zahlbr.) Elix Louwhoff & Elix 1999.
P. pacificum (Kurok.) Kurok. Louwhoff & Elix 1999.
P. perlatum (Huds.) M. Choisy Streimann 1986.
P. permutatum (Stirton) Hale Streimann 1986.
P. pigmentosum Hale Louwhoff & Elix 1999.
P. poolii (C.W. Dodge) Krog & Swinscow Louwhoff & Elix 1999.
P. praeinsuetum (Kurok.) Louwhoff & Elix Kurokawa 1986.
P. praesorediosum (Nyl.) Hale Streimann 1990.
P. rampoddense (Nyl.) Hale Streimann 1986.
P. reticulatum (Taylor) Hale Streimann 1986.
P. robustum (Degel.) Hale Streimann 1990.
P. saccatilobum (Taylor) Hale Streimann 1990.
P. sancti-angelii (Lynge) Hale Streimann 1986.
P. sipmanii Louwhoff & Elix Louwhoff & Elix 1999.
P. subarnoldii (des Abb.) Hale Streimann 1986.
P. subcorallinum (Hale) Hale Louwhoff & Elix 1999.
P. subrugatum (Krempelh.) Hale Streimann 1990.
P. subtinctorium (Zahlbr.) Hale Aptroot et al. 1997 (ignored by Louwhoff & Elix 1999).
P. sulphuratum (Nees) Hale Streimann 1990.
P. tinctorum (Nyl.) Hale Streimann 1986.
P. ultralucens (Krog) Hale Streimann 1986.
P. verrucatum Louwhoff & Elix Louwhoff & Elix 1999.
P. watutense Louwhoff & Elix Louwhoff & Elix 1999.
Peltigera *canina* (L.) Willd. Streimann 1986.
P. cichoracea Jatta Sérusiaux et al. 2009.
P. didactyla (With.) J.R. Laundon Streimann 1986.
P. dolichorhiza (Nyl.) Nyl. Streimann 1986.
P. erioderma Vain. Streimann 1986.
P. fimbriata Sérus. et al. Sérusiaux et al. 2009.
P. koponenii Sérus. et al. Sérusiaux et al. 2009.
P. oceanica Gyelnik Sérusiaux et al. 2009.
P. papuana Sérus. et al. Sérusiaux et al. 2009.
P. ulcerata Müll. Arg. Aptroot & Sipman 1991.
P. weberi Sérus. et al. Sérusiaux et al. 2009.
Peltula *bolanderi* (Tuck.) Wetmore Aptroot 1998.
P. obscurans (Nyl.) Gyelnik Aptroot et al. 1997.
Pertusaria *allogibberosa* A.W. Archer & Elix Archer & Elix 1998a.
P. angabangensis A.W. Archer & Elix Archer & Elix 1998a.
P. anomalospora A.W. Archer, Elix & Streim. Elix, Aptroot & Archer 1997.
P. aptrootii A.W. Archer & Elix Archer & Elix 1998a.
P. asterella Aptroot Elix, Aptroot & Archer 1997.
P. atropilota A.W. Archer & Elix Archer & Elix 1998a.
P. balekensis A.W. Archer & Elix Archer & Elix 1998a.

P. bogia A.W. Archer & Elix Archer & Elix 1998a.
P. buloloensis A.W. Archer, Elix & Streim. Elix, Aptroot & Archer 1997.
P. bundensis A.W. Archer & Elix Archer & Elix 1998b.
P. burburana Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. ceylonica Müll. Arg. Elix, Aptroot & Archer 1997.
P. cicatricosa Müll. Arg. (incl. var. *deficiens* Archer, Elix & Streimann) Elix, Aptroot & Archer 1997.
P. consanguinea Müll. Arg. Elix, Aptroot & Archer 1997.
P. copelandii Vain. Elix, Aptroot & Archer 1997.
P. dehiscens Müll. Arg. Archer & Elix 1998b.
P. damiensis A.W. Archer, Elix & Streim. Elix, Aptroot & Archer 1997.
P. elliptica Müll. Arg. Elix, Aptroot & Archer 1997.
P. epitheciifera Sipman Elix, Aptroot & Archer 1997.
P. gongylospora Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. gorokorana Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. gyalectoides Vězda Elix, Aptroot & Archer 1997.
P. hermaka A.W. Archer Elix, Aptroot & Archer 1997.
P. howeana A.W. Archer & Elix Elix, Aptroot & Archer 1997.
P. hypothamnolica Dibben Elix, Aptroot & Archer 1997.
P. hypoprotocetrarica A.W. Archer & Elix Archer & Elix 1998a.
P. inconspicua A.W. Archer & Elix Archer & Elix 1998a.
P. irregularis Müll. Arg. Archer & Elix 1998a.
P. kagamugana Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. kaindiensis A.W. Archer, Elix & Streim. Elix, Aptroot & Archer 1997.
P. karkarensis A.W. Archer & Elix Archer & Elix 1998a.
P. laeana A.W. Archer & Elix Archer & Elix 1998a.
P. leiocarpella Müll. Arg. Elix, Aptroot & Archer 1997.
P. manamensis A.W. Archer & Elix Archer & Elix 1998a.
P. microstoma Müll. Arg. Elix, Aptroot & Archer 1997.
P. modesta Müll. Arg. Elix, Aptroot & Archer 1997.
P. montpittensis A.W. Archer Elix, Aptroot & Archer 1997.
P. myola A.W. Archer & Elix Archer & Elix 1998a.
P. naduriensis A.W. Archer & Elix Archer & Elix 1998a.
P. novoguineae A.W. Archer & Elix Archer & Elix 1998a.
P. orarensis A.W. Archer & Elix Archer & Elix 1998b.
P. papuana A.W. Archer & Elix Archer & Elix 1998a.
P. parmatia A.W. Archer & Elix Archer & Elix 1998a.
P. persulphurata Müll. Arg. Elix, Aptroot & Archer 1997.
P. perthwaitesii A.W. Archer & Elix Archer & Elix 1998a.
P. petrophytes C. Knight Archer & Elix 1998a.
P. philippina Vain. Elix, Aptroot & Archer 1997.
P. plethocarpa A.W. Archer, Elix & Streim. Elix, Aptroot & Archer 1997.
P. praecipua A.W. Archer & Elix Archer & Elix 1998b.
P. pseudococcodes Müll. Arg. Elix, Aptroot & Archer 1997.
P. psoromica A.W. Archer & Elix Elix, Aptroot & Archer 1997.
P. puffina A.W. Archer & Elix Elix, Aptroot & Archer 1997.
P. pycnophora Nyl. Elix, Aptroot & Archer 1997.
P. pycnothelia Nyl. Elix, Aptroot & Archer 1997.
P. ramuensis A.W. Archer & Elix Archer & Elix 1998b.
P. ramulifera H. Magn. Elix, Aptroot & Archer 1997.
P. rechingeri Zahlbr. Elix, Aptroot & Archer 1997.
P. scaberula A.W. Archer Elix, Aptroot & Archer 1997.
P. sipmanii A.W. Archer & Elix Archer & Elix 1998a.
P. streimannii Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. subplanaica A.W. Archer & Elix Elix, Aptroot & Archer 1997.

P. subsorodes Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. subventosa Malme (incl. var. *hypothamnolica* A.W. Archer & Elix) Elix, Aptroot & Archer 1997.
P. thwaitesii Müll. Arg. Elix, Aptroot & Archer 1997.
P. tropica Müll. Arg. Elix, Aptroot & Archer 1997.
P. velata (Turner) Nyl. Elix, Aptroot & Archer 1997.
P. vulpina A.W. Archer Elix, Aptroot & Archer 1997.
P. wauensis Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. weberi Elix & A.W. Archer Elix, Aptroot & Archer 1997.
P. yupna A.W. Archer & Elix Archer & Elix 1998a.
Phacopsis *oxyspora* (Tul.) Triebel & Rambold Aptroot et al. 1997.
Phaeographis *intricans* (Nyl.) Staiger www.tropicallichens.net specimen in B
P. lobata (Eschw.) Müll. Arg. www.tropicallichens.net specimen in B
Phaeographopsis *palaeotropica* Kalb Kalb 2004
Phaeophyscia *crocea* Aptroot & Sipman Aptroot & Sipman 1991.
P. endococcinodes (Poelt) Essl. Aptroot & Sipman 1991.
P. hispidula (Ach.) Moberg (incl. ssp. *primaria* Poelt) Aptroot & Sipman 1991.
Phaeosporobolus *alpinus* R. Sant., Alstrup & D. Hawksw. Aptroot et al. 1997.
Phyllobathelium *nigrum* R. Sant. & Tibell Aptroot & Sipman 1993.
Phylloblastia *dolichospora* Vain. Streimann 1986.
P. pocsii Vězda Sérusiaux, Coppins & Lücking 2007
Phyllocratera *papuana* Sérus. & Aptroot Aptroot et al. 1997.
Phyllopsora *buettneri* (Müll. Arg.) Zahlbr. Streimann & Sipman 1994.
P. confusa Swinscow & Krog Streimann & Sipman 1994.
P. furfuracea (Pers.) Zahlbr. Aptroot et al. 1997.
P. haemophaea (Nyl.) Müll. Arg. Aptroot et al. 1997.
P. pannosa Müll. Arg. Aptroot et al. 1997.
P. parvifolia (Mont.) Müll. Arg. Streimann 1986.
P. santensis (Tuck.) Swinscow & Krog Aptroot et al. 1997.
Physcia *alba* (Fée) Müll. Arg. Aptroot 1998.
P. atrostriata Moberg Aptroot & Sipman 1991.
P. dimidiata (Arn.) Nyl. Aptroot & Sipman 1991.
P. erumpens Moberg Aptroot & Sipman 1991.
P. krogiae Moberg Streimann 1990.
P. phaea (Tuck.) J. Thomson Aptroot & Sipman 1991.
P. poncinsii Hue Aptroot & Sipman 1991.
P. solediosa (Vain.) Lynge Aptroot & Sipman 1991.
P. tribacoides Nyl. Streimann 1990.
P. vermifera Aptroot & Sipman Aptroot & Sipman 1991.
P. verrucosa Moberg Streimann 1990.
Physcidia *australasica* Kalb & Elix Kalb & Elix 1995.
P. cylindrophora (Taylor) Hue Kalb & Elix 1995.
P. wrightii (Tuck.) Tuck. Streimann 1986.
Physma *byrsaeum* (Ach.) Tuck. Aptroot & Sipman 1991.
P. pseudoisidiatum Aptroot & Sipman Aptroot et al. 1997.
Piccolia *conspersa* (Fée) Hafellner Hafellner 1995.
P. elmeri (Vain.) Hafellner Hafellner 1995.
P. haematina (Müll. Arg.) Hafellner Aptroot & Sipman 1991.
Placopsis *albida* (Krempelh.) I.M. Lamb Galloway 2005.
P. auriculata Lumbsch & Kashiw. Lumbsch, Kashiwadani & Streimann 1993.
P. cribellans (Nyl.) Räsänen Aptroot & Sipman 1991.
P. gelida (L.) Lindsay www.tropicallichens.net specimen in BM
P. isidiophora I.M. Lamb. Aptroot et al. 1997 (as *P. rhodophthalma* (Müll. Arg.) Räs.).
P. perrugosa (Nyl.) Nyl. Aptroot & Sipman 1991.
Placynthiella *icmalea* (Ach.) Coppins & P. James Aptroot et al. 1997.

Platygramme colubrosa (Nyl.) Staiger www.tropicallichens.net specimen in B

Platythecium acutisporum Staiger www.tropicallichens.net specimen in B

P. dimorphodes (Nyl.) Staiger Staiger 2002.

P. spaherosporellum (Nyl.) Staiger www.tropicallichens.net specimen in B

Plectocarpon arthonioides Diederich Aptroot et al. 1997.

P. epiphyllum (Sérus.) Cáceres et al. Aptroot et al. 1997.

P. lambinonii Diederich & Etayo Aptroot et al. 1997.

P. pseudocyphellariae Diederich Aptroot et al. 1997.

Polychidium dendriscum (Nyl.) A. Henssen Aptroot et al. 1997.

P. muscicola (Sw.) S. Gray Aptroot et al. 1997.

P. stipitatum Vězda & W.A. Weber Aptroot et al. 1997.

Polycoccum montis-wilhelmii Diederich Aptroot et al. 1997.

Polymeridium albidum (Müll. Arg.) R.C. Harris Aptroot et al. 1997.

P. albocinereum (Krempelh.) R.C. Harris Harris 1993.

P. campylothelioides Aptroot & Sipman Aptroot et al. 1995.

P. catapastum (Nyl.) R.C. Harris Harris 1993.

P. contendens (Nyl.) R.C. Harris Aptroot et al. 1997.

P. proponens (Nyl.) R.C. Harris Aptroot et al. 1997.

Porina albicera (Krempelh.) van Overeem-de Haas Aptroot & Sipman 1993.

P. applanata Vain. Streimann 1986.

P. atriceps (Vain.) Vain. Lücking & Vězda 1998.

P. atropunctata Lücking & Vězda Lücking & Vězda 1998.

P. cerina (Zahlbr.) R. Sant. Streimann 1986.

P. chlorotica (Ach.) Müll. Arg. Aptroot 1998.

P. conica R. Sant. Streimann 1986.

P. corruscans (Rehm) R. Sant. Streimann 1986.

P. desquamescens Fée Aptroot et al. 1997.

P. dipterocarpi Aptroot Aptroot et al. 1997.

P. epiphylla (Fée) Fée Streimann 1986.

P. exasperatula Vain. Aptroot 1998.

P. farinosa C. Knight McCarthy 1995.

P. fulvella Müll. Arg. Streimann 1986.

P. gaumae Aptroot & Sipman Aptroot et al. 1995.

P. guentheri (Flotow) Zahlbr. Aptroot et al. 1997.

P. homala R. Sant. Streimann 1986.

P. imitatrix Müll. Arg. Streimann 1986.

P. internigrans (Nyl.) Müll. Arg. www.tropicallichens.net specimen in BM

P. leptosperma Müll. Arg. Streimann 1986.

P. limbulata (Krempelh.) Vain. Streimann 1986.

P. lucida R. Sant. Streimann 1986.

P. mastoidea (Ach.) Müll. Arg. Aptroot et al. 1995.

P. minutissima A. Henssen, Lücking & Vězda Lücking & Vězda 1998.

P. mirabilis Lücking & Vězda Lücking & Vězda 1998.

P. multiseptata Müll. Arg. Streimann 1986.

P. nitidula Müll. Arg. Streimann 1986.

P. nucula Ach. Aptroot et al. 1997.

P. perminuta Vain. Aptroot et al. 1995.

P. planiuscula Vězda Vězda 1994.

P. pseudofurvella Sérus. Aptroot & Sipman 1991.

P. rufula (Krempelh.) Vain. Streimann 1986.

P. semecarpi Vain. Streimann 1986.

P. sphaerocephala Vain. Streimann 1986.

P. tetracerae (Afzel. in Ach.) Müll. Arg. Aptroot et al. 1997.

P. trichothelioides R. Sant. Aptroot et al. 1997.

P. virescens (Krempelh.) Müll. Arg. Aptroot & Sipman 1993.

P. viridinigriscans Vain. Streimann & Sipman 1994.
Porocyphus *lichinelloides* A. Henssen Aptroot et al. 1997.
Porpidia *crustulata* (Ach.) Hertel & Knoph www.tropicallichens.net
P. macrocarpa (DC.) Hertel & Schwab Aptroot et al. 1997.
Protoparmelia *badia* (Hoffm.) Hafellner Aptroot et al. 1997.
P. isidiata Diederich, Aptroot & Sérus. Aptroot et al. 1997.
P. pulchra Diederich, Aptroot & Sérus. Aptroot et al. 1997.
Pseudocyphellaria *argyracea* (Delise) Vain. Galloway 1994.
P. aurata (Ach.) Vain. Galloway 1994.
P. beccarii (Krempelh.) D. Galloway Galloway 1994.
P. carpoloma (Delise) Vain. Galloway 1994.
P. clathrata (De Not.) Malme Galloway 1994.
P. crocata (L.) Vain. Galloway 1994.
P. crocatoides D. Galloway Galloway 1994.
P. desfontainii (Delise) Vain. Galloway 1994.
P. dissimilis (Nyl.) D. Galloway & P. James Galloway 1994.
P. dozyana (Mont. & v.d. Bosch) D. Galloway Galloway 1994.
P. gilva (Ach.) Malme Galloway 1994.
P. insculpta (Stiz.) D. Galloway Galloway 1994.
P. intricata (Delise) Vain. Galloway 1994.
P. maculata D. Galloway Galloway 1994.
P. multifida (Nyl.) D. Galloway & P. James Galloway 1994.
P. neglecta (Müll. Arg.) H. Magn. Galloway 1994.
P. pickeringii (Tuck.) D. Galloway Galloway 1994.
P. poculifera (Müll. Arg.) D. Galloway & P. James Galloway 1994.
P. prolificans (Nyl.) Vain. Galloway 1994.
P. punctillaris (Müll. Arg.) D. Galloway Galloway 1994.
P. reineckiana (Müll. Arg.) D. Galloway Galloway 1994.
P. rigida (Müll. Arg.) D. Galloway Galloway 1994.
P. semilanata (Müll. Arg.) D. Galloway Galloway 1994.
P. sulphurea (Shaerer) D. Galloway Galloway 1994.
P. trichophora (Vain.) D. Galloway Galloway 1994.
Pseudopyrenula *papuana* Aptroot Aptroot et al. 1997.
P. pyrenuloides Zahlbr Aptroot et al. 1997.
P. serusiauxii Aptroot Aptroot 1998.
P. subnudata Müll. Arg. Aptroot et al. 1997.
Psoroma *filicicola* P.M. Jørg. & Sipman Jørgensen & Sipman 2006.
Punctonora *nigropulvinata* Aptroot Aptroot et al. 1997.
Pyrenula *aggregans* Vain. Aptroot et al. 1997.
P. anomala (Ach.) R.C. Harris Aptroot et al. 1997.
P. aspistea (Ach.) Ach. Aptroot et al. 1997.
P. astroidea (Fée) R.C. Harris Aptroot et al. 1997.
P. ciliata Aptroot Aptroot et al. 1997.
P. citriformis R.C. Harris Aptroot et al. 1997.
P. cocoes Müll. Arg. Aptroot et al. 1997.
P. concatervans (Nyl.) R.C. Harris Aptroot et al. 1997.
P. confinis (Nyl.) R.C. Harris Aptroot et al. 1997.
P. dermatodes (Borrer) Schaer. Aptroot et al. 1997.
P. gahavisukana Aptroot Aptroot et al. 1997.
P. globifera (Eschw.) Aptroot www.tropicallichens.net specimen in BM
P. grossa Aptroot Aptroot et al. 1997.
P. laureriformis Aptroot Aptroot et al. 1997.
P. lineatostroma Aptroot Aptroot et al. 1997.
P. leucostoma Ach. Aptroot et al. 1997.
P. macrocarpa A. Massal. Aptroot et al. 1997.

P. macularis (Zahlbr.) R.C. Harris Aptroot et al. 1997.
P. mamillana (Ach.) Trevis. Aptroot et al. 1997.
P. massariospora (Starb.) R.C. Harris Aptroot et al. 1997.
P. media Aptroot Aptroot et al. 1997.
P. microcarpa Müll. Arg. Aptroot et al. 1997.
P. montana Aptroot Aptroot et al. 1997.
P. mucosa (Vain.) R.C. Harris Aptroot et al. 1997.
P. nitidula (Bres.) R.C. Harris Aptroot et al. 1997.
P. ochraceoflava (Nyl.) R.C. Harris Aptroot et al. 1997.
P. parva Vain. Aptroot et al. 1997.
P. parvinuclea (Meyen & Flotow) Aptroot Aptroot et al. 1997.
P. pyrenastrospora Aptroot Aptroot et al. 1997.
P. pyrgillospora Aptroot Aptroot et al. 1997.
P. quassiaecola Fée Aptroot et al. 1997.
P. quinqueseptata Aptroot Aptroot et al. 1997.
P. ravenelii (Tuck.) R.C. Harris Aptroot et al. 1997.
P. santensis (Nyl.) Müll. Arg. Aptroot et al. 1997.
P. septicollaris (Eschw.) R.C. Harris Aptroot et al. 1997.
P. subcongruens Müll. Arg. Aptroot et al. 1997 (as *P. pileata* Vain.).
P. subferruginea (Malme) R.C. Harris Aptroot et al. 1997.
Pyrgillus *cubanus* Nyl. Aptroot 1991a.
P. javanicus (Mont. & v.d. Bosch) Nyl. Aptroot & Sipman 1991.
Pyxine *berteriana* (Fée) Imsh. Streimann 1986.
P. cocoes (Sw.) Nyl. Aptroot et al. 1995.
P. convexior (Müll. Arg.) Swinscow & Krog Aptroot & Sipman 1991.
P. copelandii Vain. Aptroot & Sipman 1991.
P. coralligera Malme Streimann 1986.
P. cylindrica Kashiw. Aptroot et al. 1995.
P. farinosa Kashiw. Aptroot et al. 1995.
P. isidiolenta R. Rogers Aptroot et al. 1995.
P. limbulata Müll. Arg. Aptroot & Sipman 1991.
P. meissnerina Nyl. Aptroot & Sipman 1991.
P. minuta Vain. Aptroot & Sipman 1991.
P. petricola Nyl. in Crombie Streimann 1986.
P. philippina Vain. Streimann 1986.
P. retirugella Nyl. (as *consocians*) Aptroot & Sipman 1991.
P. schmidtii Vain. (as *papuana*) Streimann 1986.
P. sorediata (Ach.) Mont. in Sagra Streimann 1990.
P. subcinerea Stirton Streimann 1986.
Raciborskiella *janeirensis* (Müll. Arg.) R. Sant. Streimann 1986.
Ramalina *inflata* (J.D. Hooker & Taylor) J.D. Hooker & Taylor Aptroot et al. 1997.
R. conduplicans Vain. www.tropicallichens.net specimen in BM
R. javanica Nyl. Streimann 1986.
R. leiodea (Nyl.) Nyl. Streimann 1986.
R. nervulosa (Müll. Arg.) des Abb. Streimann 1990.
R. peruviana Ach. Aptroot et al. 1997.
R. subfraxinea Nyl. Streimann 1986.
R. tenella Müll. Arg. Streimann 1990.
R. tropica G.N. Stevens Streimann 1990.
Ramboldia *aurantiaca* (Aptroot & Diederich) Kalb, Lumbsch & Elix Aptroot et al. 1997 (as *Pyrrhospora aurantiaca* Aptroot & Diederich).
R. brunneocarpa Kantvilas & Elix Aptroot et al. 1997.
R. russula (Ach.) Kalb, Lumbsch & Elix Aptroot et al. 1997 (as *Pyrrhospora russula* (Ach.) Hafellner).
Ramonia *microspora* Vězda Aptroot 1998.

R. monospora Aptroot Aptroot et al. 1997.
Relicina *abstrusa* (Vain.) Hale Elix 1996a.
R. agglutinata Elix & J. Johnston Elix 1996a.
R. amphithrix Hale Elix 1996a.
R. circumnodata (Nyl.) Hale Elix 1996a.
R. columnaria Elix & J. Johnston Elix 1996a.
R. connivens (Kurok.) Hale Elix 1996a.
R. diederichii Elix Elix 2007a.
R. fijiensis Elix & J. Johnston Elix 1996a.
R. fluorescens (Hale) Hale Elix 1996a.
R. gemmulosa (Kurok.) Streim. Streimann 1986.
R. hirtifructa (Kurok.) Streim. Streimann 1986.
R. luteoviridis (Kurok.) Hale Streimann 1986.
R. malesiana (Hale) Hale Streimann 1986.
R. palmata Elix Elix 1996a.
R. planiuscula (Kurok.) Hale Streimann 1986.
R. ramosissima (Kurok.) Hale Elix 1996a.
R. relicinula (Müll. Arg.) Hale Elix 1996a.
R. retrospinosa (Kurok. & Kashiw.) Streim. Streimann 1986.
R. samoensis (Zahlbr.) Hale Elix 1996a.
R. schizospatha (Kurok.) Hale Streimann 1986.
R. sipmanii Elix Elix 1996a.
R. subabstrusa (Gyelnik) Hale Elix 1996a.
R. sublanea (Kurok.) Hale Elix 1996a.
R. sydneyensis (Gyelnik) Hale Elix 1996a.
R. terricodila Elix & J. Johnston Elix 1996a.
R. vinasii Elix Elix 1996a.
Relicinopsis *intertexta* (Mont. & v.d. Bosch) Elix & D. Verdon Streimann 1986.
R. malaccensis (Nyl.) Elix & D. Verdon Streimann 1986.
Rhizocarpon *badioatrum* (Flörke ex Sprengel) Th. Fr. Aptroot et al. 1997.
R. geographicum (L.) DC. Aptroot et al. 1997.
R. simillimum (Anzi) Lettau www.tropicallichens.net specimen in BM
Rimularia *globulisporea* Sipman & Aptroot Aptroot & Sipman 1991.
Rinodina *albosedata* Aptroot, Diederich & Sérus. Aptroot et al. 1997.
R. cinereovirescens (Harm.) Zahlbr. Aptroot & Sipman 1991.
R. conradii Körber Aptroot et al. 1997.
R. fuscocrystallina Aptroot Aptroot et al. 1997.
R. occulta (Körber) Sheard Aptroot et al. 1997.
R. oxydata (A. Massal.) A. Massal. Aptroot et al. 1997.
R. xanthomelana Müll. Arg. Aptroot & Sipman 1991.
Rocella *montagnei* Bél. Streimann 1990.
Roselliniella *atlantica* Matzer & Hafellner Aptroot et al. 1997.
R. cladoniae (Anzi) Matzer & Hafellner Aptroot et al. 1997.
R. papuana Diederich Aptroot et al. 1997.
Sagenidiopsis *merrotsii* R. Rogers & Hafellner Aptroot et al. 1997.
Sarcographa *elmeri* (Vain.) Sipman Aptroot et al. 1997.
S. heteroclita (Mont.) Zahlbr. Streimann 1986.
S. labyrinthica (Ach.) Müll. Arg. Streimann 1986.
Sarcographina *glyphiza* (Nyl.) K.P. Singh & D.D. Awasthi www.tropicallichens.net specimen in B
Schistophoron *variabile* Tibell www.tropicallichens.net specimen in BM
Sclerophyton *aptrootii* Sparrius Sparrius 2004
S. elegans Eschw. Sparrius 2004
S. extenuatum (Nyl.) Sparrius Sparrius 2004
Scutula *epicladonia* (Nyl.) Sacc. Aptroot et al. 1997.

Semigyalecta paradoxa Vain. Aptroot et al. 1997.

Septotrapelia triseptata (Hepp) Aptroot Aptroot & Sipman 1991 (as *Bacidia triseptata* (Hepp) Zahlbr).

Siphula decumbens Nyl. Lambley 1991.

S. dichotoma Vain. Elix 1991.

Solorina simensis Hochst. ex Flotow Vitikainen 1989.

Sphaerellothecium araneosum (Rehm ex Arnold) Zopf Aptroot et al. 1997.

S. cladoniicola E.S. Hansen & Alstrup Aptroot et al. 1997.

S. gallowayi Diederich Diederich 2007.

Sphinctrina tubaeformis A. Massal. Aptroot & Sipman 1991.

Sporopodiopsis mortimeriana Sérus. Sérusiaux 1997.

Sporopodium argillaceum (Müll. Arg.) Zahlbr. Aptroot & Sipman 1991.

S. isidiatum Sérus. & Lücking Sérusiaux & Lücking 2005.

S. lepieurii Mont. Streimann & Sipman 1994.

S. lucidum Aptroot & Sipman Aptroot et al. 1997.

S. muscicola Lambley & Sérus. Aptroot et al. 1997.

S. phyllocharis (Mont.) A. Massal. Aptroot et al. 1997.

S. xantholeucum (Müll. Arg.) Zahlbr. Aptroot et al. 1997.

Staurothele australis Groenhart Aptroot et al. 1997.

Stereocaulon brassii I.M. Lamb Streimann 1986.

S. flabellatum Mineta Streimann 1986.

S. glareosum (Sav.) H. Magn. Sipman 1998.

S. graminosum Schaer. Streimann 1986.

S. leprocauloides I.M. Lamb ex W.A. Weber Streimann 1986.

S. massartianum Hue Streimann 1986.

S. myriocarpum Fr. Streimann 1986.

S. pseudomassartianum I.M. Lamb ex Frey Streimann 1986.

S. staufferi I.M. Lamb ex Frey Streimann 1986.

Sticta alpinotropica Aptroot Aptroot 2008.

S. boschiana Mont. Streimann 1986.

S. brevipes (Müll. Arg.) Zahlbr. www.tropicallichens.net specimen in BM

S. caulescens De Not. Streimann 1986.

S. cyphellulata (Müll. Arg.) Hue Streimann 1986.

S. dendroidella Zahlbr. www.tropicallichens.net specimen in ABL

S. filicina Ach. www.tropicallichens.net specimen in ABL

S. fimbriata Schaer. Streimann 1986.

S. fuliginosa (Dicks.) Ach. Streimann 1986.

S. heppiana Hue Streimann 1986.

S. hirsuta Mont. Streimann 1986.

S. keysseri Zahlbr. Streimann 1986.

S. leami Zahlbr. Streimann 1986.

S. macrophylla Bory Streimann 1986.

S. marginifera Mont. Streimann 1986.

S. myrioloba (Müll. Arg.) D. Galloway Galloway 1998

S. pedunculata Krempelh. Streimann 1986.

S. pochii Zahlbr. Streimann 1986.

S. pulvinata Vain. Streimann 1986.

S. sayeri Müll. Arg. Streimann 1986.

S. semilanata (Müll. Arg.) Zahlbr. Streimann 1986.

S. sublimbata (J. Steiner) Swinscow & Krog www.tropicallichens.net specimen in BM

S. subpalmata Zahlbr. Streimann 1986.

S. sulphurae Schaer. Streimann 1986.

S. variabilis Ach. Galloway 1998

S. weigelii Isert in Ach. Streimann 1986.

S. xanthotropa (Krempelh.) D. Galloway www.tropicallichens.net specimen in ABL

Stigmidium epiphyllum Matzer Matzer 1996.
Stirtonia macrocephala R. Sant. Aptroot & Sipman 1991.
S. obvallata (Stirton) A.L. Sm. Aptroot et al. 1995.
Stratisporella episemoides (Nyl.) Hafellner Aptroot et al. 1997.
Strigula albomaculata Sérus. Aptroot et al. 1997.
S. macrocarpa Vain. Aptroot et al. 1997.
S. melanobapha (Krempelh.) R. Sant. Streimann 1986.
S. multipunctata (Merr. ex R. Sant.) R.C. Harris Streimann 1986 (as *Phylloporis*).
S. muriformis Aptroot & Diederich Aptroot et al. 1997.
S. nemathora Mont. (incl. var. *hypothelia* (Nyl.) R. Sant.) Aptroot et al. 1995.
S. obducta (Müll. Arg.) R.C. Harris Streimann 1986 (as *Phylloporis*).
S. orbicularis Fr. Streimann 1986.
S. phaea (Ach.) R.C. Harris Aptroot et al. 1997.
S. phyllogena (Müll. Arg.) R.C. Harris Streimann 1986 (as *Phylloporis*).
S. platypoda (Müll. Arg.) R.C. Harris Aptroot & Sipman 1993 (as *Phylloporis*).
S. smaragdula Fr. Streimann 1986.
S. subelegans Vain. Streimann 1986.
S. subtilissima (Fé) Müll. Arg. Aptroot & Sipman 1993.
S. viridiseda (Nyl.) R.C. Harris Aptroot et al. 1997.
S. wilsonii (Riddle) R.C. Harris Aptroot et al. 1997.
Syzygospora bachmannii Diederich & M.S. Christ. Diederich 1996.
S. physciacearum Diederich Diederich 1996.
Szczawinskia foliicola Holien & Tønsberg Holien & Tønsberg 2002 (as *T. tsugae* Funk in Aptroot et al. 1997).
Taeniolella delicata M.S. Christ. & D. Hawksw. Aptroot et al. 1997.
T. serusiauxii Diederich Aptroot et al. 1997.
Tapellaria nigrata (Müll. Arg.) R. Sant. Streimann 1986.
Teloschistes flavicans (Sw.) Norman Aptroot et al. 1997.
Tephromela atra (Huds.) Hafellner Aptroot et al. 1997.
Thalloloma hypoleptum (Nyl.) Staiger www.tropicallichens.net specimen in B
T. isidiosum Staiger Staiger 2002.
Thamnochrolechia verticillata Aptroot & Sipman Aptroot et al. 1997.
Thamnolia juncea R. Sant. Santesson 2004
T. vermicularis (Sw.) Ach. ex Schaer. Streimann 1986.
Thecaria montagnei (Mont. & v.d. Bosch) Staiger www.tropicallichens.net specimen in B
T. quassiaecola Fée www.tropicallichens.net specimen in B
Thelenella brasiliensis (Müll. Arg.) Vain. Aptroot 1998.
Thelopsis byssoidea Diederich Aptroot et al. 1997.
Thelotrema armellense Patw. et al. www.bgbm.org/scripts/ASP/lichcol specimen in B
T. dilatatum (Müll. Arg.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
T. leprieurii (Mont.) Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
T. leprocarpoides Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
T. patens Nyl. www.bgbm.org/scripts/ASP/lichcol specimen in B
T. pidurutalagala Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
T. porinoides Mont. & v.d. Bosch www.bgbm.org/scripts/ASP/lichcol specimen in B
T. subweberi Sipman Sipman 1993
T. waassii Hale www.bgbm.org/scripts/ASP/lichcol specimen in B
T. weberi Hale Sipman 1993
Thysanothecium scutellatum (Fr.) D. Galloway Streimann 1986.
Trapelia coarctata (Sm.) M. Choisy Aptroot & Sipman 1991.
T. geochroa (Körber) Hertel Aptroot & Sipman 1991.
T. placodioides Coppins & P. James Aptroot 1998.
Trapeliopsis flexuosa (Fr.) Coppins & P. James Aptroot et al. 1997.
T. glaucolepidea (Nyl.) Gotth. Schneider Aptroot & Sipman 1991.
T. granulosa (Hoffm.) Lumbsch Aptroot et al. 1997.

T. haumanii (Zahlbr.) Gotth. Schneider Aptroot & Sipman 1991.
Traponora *asterella* Aptroot Aptroot et al. 1997.
T. globosa Aptroot Aptroot 2009
T. macrospora Aptroot Aptroot 2009
T. pallida Aptroot Aptroot 2009
Tremella *cladoniae* Diederich & M.S. Christ. Diederich 1996.
T. lobariacearum Diederich Diederich 1996.
T. microcarpa Diederich Diederich 1996.
T. montis-wilhelmii Diederich Diederich 1996.
T. papuana Diederich Diederich 1996.
T. parmeliarum Diederich Diederich 1996.
T. parmeliellae Diederich Diederich 1996.
T. psoroglaenae Diederich Diederich 1996.
T. psoromatis Diederich Diederich 1996.
T. santessonii Diederich Diederich 1996.
T. stevensiana Diederich Diederich 1996.
T. stictae Diederich Diederich 1996.
Tricharia *albostrigosa* R. Sant. Aptroot et al. 1997.
T. demoulinii Sérus. Aptroot et al. 1997.
T. deslooveri Sérus. Aptroot et al. 1997.
T. elegans Sérus. Aptroot et al. 1997.
T. helminthospora R. Sant. Aptroot et al. 1997.
T. novoguineensis Sérus. Aptroot et al. 1997.
T. ramifera Sérus. Aptroot et al. 1997.
T. Vain.i R. Sant. Streimann 1986.
Tricharia *variratae* Lücking & Sipman Lücking, Sérusiaux & Vezda 2005.
T. verrucosa Sérus. Aptroot et al. 1997.
Trichothelium *alboatrum* Vain. Streimann 1986.
T. annulatum (P. Karsten) R. Sant. Aptroot & Sipman 1993.
T. croceum Sérus. Aptroot et al. 1997.
T. epiphyllum Müll. Arg. Aptroot & Sipman 1993.
T. kalbii Lücking Lücking & Caceres 2004.
Trypethiopsis *coccinea* (Aptroot & Sipman) Aptroot Aptroot & Sipman 1993.
T. epiphylla (R.Sant.) Aptroot Aptroot et al. 1997.
T. gigas (Zahlbr.) Aptroot Aptroot 1998.
T. kalbii (Lücking & Sérus.) Aptroot Aptroot et al. 1997.
T. kassamensis (Sérus.) Aptroot Aptroot et al. 1997.
Trypethelium *aeneum* (Eschw.) Zahlbr. Aptroot & Sipman 1991.
T. cinereorosellum Krempelh. Aptroot et al. 1997.
T. eluteriae Sprengel Aptroot & Sipman 1991.
T. epileucodes Nyl. Aptroot et al. 1997.
T. galligenum Aptroot Aptroot 1998.
T. grossum Müll. Arg. Streimann 1986.
T. macrosporum Makhija & Patw. Aptroot et al. 1997.
T. nitidiusculum (Nyl.) R. C. Harris Aptroot et al. 1997.
T. ochroleucum (Eschw.) Nyl. Aptroot & Sipman 1991.
T. subeluteriae Makhija & Patw. Harris 1995.
T. tropicum (Ach.) Müll. Arg. Aptroot & Sipman 1991.
Tylophoron *moderatum* Nyl. Tibell 1987.
T. protrudens Nyl. Aptroot et al. 1997.
Usnea *alboverrucata* G.N. Stevens Stevens 1999.
U. baileyi Stirton Streimann 1986.
U. bismolliuscula Zahlbr. Stevens 1999.
U. dasaea Stirton Streimann 1986 (as *U. undulata* Stirton).
U. flexilis Stirton Streimann 1986.

U. himantodes Stirton. Stevens 1999.
U. hossei Vain. Stevens 1999.
U. longissima Ach. Stevens 1991.
U. misamisensis Motyka Streimann 1986.
U. molliuscula Stirton Stevens 1999.
U. perplexans Stirton www.tropicallichens.net specimen in BM
U. pycnoclada Vain. Stevens 1999.
U. rubicunda Stirton Streimann 1986.
Verrucaria *calciseda* DC. Aptroot et al. 1997.
V. hydrela Ach. Aptroot 1998.
V. inconstans P.M. McCarthy Aptroot 1998.
V. margacea (Wahlenb.) Wahlenb. Aptroot 1998.
V. praetermissa (Trevisan) Anzi Aptroot 1998.
Veizdaea *dawsoniae* Döbbeler Aptroot et al. 1997.
V. foliicola Sérus. Aptroot et al. 1997.
Wegea *tylophorelloides* Aptroot & Tibell Aptroot & Tibell 1998.
Wentomyces *tatjanae* Kondratyuk Kondratyuk 1996.
Xanthoparmelia *atrocapnodes* (Elix & Johnston) Blanco et al. Elix & Johnston 1986 (as *Paraparmelia atrocapnodes* Elix & J. Johnston).
X. incerta (Kurok. & Filson) Elix & J. Johnston Elix, Johnston & Armstrong 1986.
X. isidiigera (Müll. Arg.) Elix & J. Johnston Elix, Johnston & Armstrong 1986.
X. mougeotina (Nyl.) D. Galloway Aptroot 1998.
X. neotinctina (Elix) Elix & J. Johnston Elix, Johnston & Armstrong 1986.
Xanthoria *candelaria* (L.) Th. Fr. Aptroot et al. 1997.
X. elegans (Link) Th. Fr. Aptroot & Sipman 1991.
Xylographa *parallela* (Ach.: Fr.) Behlen & Desberg Aptroot et al. 1997.
Zwackhiomyces *cladoniae* (Dodge) Diederich Aptroot et al. 1997.

Additional genera reported:

Acarospora Aptroot et al. 1997.
Cryptothele Aptroot 1998.
Eschatogonia Aptroot et al. 1997.
Fuscidea Aptroot et al. 1997.
Homothecium Aptroot 1998.
Psoroglaena Diederich 1988.

Rejected records:

This includes all old records not accepted by Streimann (1986) and all species of the genus *Anzia* not accepted by Yoshimura, Sipman & Aptroot (1995), *Bryoria* by Hawksworth (in his review of Streimann (1986) in *Lichenologist*), *Bunodophoron* and *Calicium* by Tibell (1987, sub *Sphaerophorus*), *Cladonia* by Stenroos (various pubs.), *Lecanora* by Lumbsch (various papers), *Pertusaria* by Archer & Elix (various papers), *pannarioids* by Jorgensen & Sipman (various papers), and *Usnea* by Stevens (1999), *Anthracothecium*, *Arthopyrenia* and *Pyrenula* by Aptroot et al. (1997); furthermore a few species of *Baeomyces* and *Heterodermia* are omitted because they are doubtlessly wrong.

Additional information about rejected records:

Catolechia wahlenbergii: the specimen (seen in LAE) is *Arthrorhaphis alpina*
Cetrariopsis wallichiana: wrong report, due to confusion with the heterotypic *Parmelinella wallichiana*
Dactylina arctica: probably *Thamnolia*
Hypogymnia bitteri: erroneous report
Leptorhaphis novaeguineae: the type is lost, it may have been a *Celothelium*
Melanotheca achariana: a *Pyrenula*
Menegazzia terebrata: an undescribed species

Microphiale agyrothalamia: type to be studied
 Microthelia thelena: the specimen is Mycomicrothelia obovata (see Aptroot 1991)
 Mycomicrothelia miculiformis: erroneous report
 Myxodictyon subcaeruleum: no idea what this is
 Nephroma helveticum: identical with N. tropicum
 Nephromopsis nephromoides (Nyl.) Ahti & Randlane (as ectocarpisma (Hue) Gyelnik)
 Streimann 1990. not cited by Randlane & Saag 1998.
 N. stracheyi (Church. Bab.) Müll. Arg. Lambley 1991. not cited by Randlane & Saag 1998.
 Ochrolechia frigida: this is Lecanora novaeguineae
 Parmelia curtata: this is an Everniastrum (chemical strain)
 Porina epiphylloides: this is P. minutissima.
 Pseudopyrenula limitata: the type is lost, it may have been Trypethelium tropicum
 Pyrenula ochracea: the type is lost

References

- Aptroot, A. 1990.** A conspectus of *Normandina* (Verrucariaceae, lichenized ascomycetes). Willdenowia 21: 263-267.
Aptroot, A. 1991a. A monograph of the Pyrenulaceae (excluding *Anthracothecium* and *Pyrenula*) and the Requienellaceae, with notes on the Pleomassariaceae, the Trypetheliaceae and *Mycomicrothelia* (lichenized and non-lichenized ascomycetes). Bibliotheca Lichenologica 44.
Aptroot, A. 1991b. *Monoblastia pellucida*: A remarkable new lichen species from tropical coastal areas, with comments on the Monoblastiaceae. Bryologist 94: 404-406.
Aptroot, A. 1998. New lichens and lichen records from Papua New Guinea, with the description of *Crustospathula*, a new genus in the Bacidiaceae. Tropical Bryology 14: 25-34.
Aptroot, A. 1999. *Thelenella terricola*, a new saprobic ascomycete from upland Papua New Guinea. Fungal Diversity 2: 43-46.
Aptroot, A. 2007. *Davidgallowaya cornutispora*, an enigmatic lichen from New Guinea. Bibliotheca Lichenologica 95: 137-145.
Aptroot, A. 2008. *Sticta alpinotropica*, a new saxicolous lichen species from the alpine zone of Mt Wilhelm, Papua New Guinea. Lichenologist 40: 419-422.
Aptroot, A. & P.P.G. van den Boom 1995. *Strigula lateralis* spec. nov. with notes on the genus *Julella* (Ascomycetes). Mycotaxon 56: 1-8.
Aptroot, A. & R. Lücking 2003. Phenotype-based phylogenetic analysis does not support generic separation of *Gyalidea* and *Solorinella* (Ostropales: Asterothyriaceae). Bibliotheca Lichenologica 86: 53-78.
Aptroot, A. & H. Sipman 1993. *Musaespora*, a genus of pyrenocarpous lichens with campylidia, and other additions to the foliicolous lichen flora of New Guinea. Lichenologist 25: 121-135.
Aptroot, A. & L. Tibell 1998. *Wegea*, a new genus of non-lichenized, Calicioid ascomycetes in the Arthoniales. Mycotaxon 65: 339-351.
Aptroot, A. & L. Tibell 2003. *Chaenotheca papuensis*, a new species from huts in a mountain village in Papua New Guinea. Australasian Lichenology 52: 12-13.
Aptroot, A., P. Diederich, E. Sérusiaux & H.J.M. Sipman 1995. Lichens and lichenicolous fungi of Laing Island (Papua New Guinea). Bibliotheca Lichenologica 57: 19-48.
Aptroot, A., P. Diederich, E. Sérusiaux & H.J.M. Sipman 1997. Lichens and lichenicolous fungi from New Guinea. Bibliotheca Lichenologica 64: 1-230.
Archer, A.W. & J.A. Elix 1998a. Additional new species and two new reports in the lichen genus *Pertusaria* (lichenised Ascomycotina) from Papua New Guinea. Mycotaxon 67: 155-179.
Archer, A.W. & J.A. Elix 1998b. The lichen genus *Pertusaria* (lichenised Ascomycotina) in Papua New Guinea: Three new species and two new reports. Mycotaxon 69: 311-318.

- Bjerke, J.W. & H.J.M. Sipman 2007.** New species and new records of *Menegazzia* (Parmeliaceae, lichenized ascomycetes) from Malaysia and Indonesia. *Botanical Journal of the Linnean Society* 153: 489-499.
- Buck, W.R. & E. Sérusiaux 2000.** *Gyalectidium yahrriae* sp. nov. (lichenized Ascomycetes, Gomphillaceae) from Florida and Papua New Guinea. *The Bryologist* 103: 134-138.
- Degelius, G. 1994.** Studies in the lichen family Collemataceae VII. Two new tropical *Collema* species. *Nordic Journal of Botany* 14: 229-233.
- Diederich, P. 1996.** The lichenicolous heterobasidiomycetes. *Bibliotheca Lichenologica* 61: 1-198.
- Diederich, P. 2007.** *Sphaerellothecium gallowayi* sp. nov., a new lichenicolous ascomycete on *Heterodermia* from Australia and Papua New Guinea. *Bibliotheca Lichenologica* 95: 165-169.
- Diederich, P. & M.S. Christiansen 1994.** *Biatoropsis usnearum* Räsänen, and other heterobasidiomycetes on *Usnea*. *Lichenologist* 26: 47-66.
- Diederich, P. & M. Wedin 2000.** The species of *Hemigrapha* (lichenicolous Ascomycetes, Dothideales) on Peltigerales. *nordic Journal of Botany* 20: 203-214.
- Egea, J.M. & P. Torrente 1993.** *Cresponea*, a new genus of lichenized fungi in the order Arthoniales. *Mycotaxon* 48: 301-331.
- Egea, J.M. & P. Torrente 1994.** El género de hongos liquenizados *Lecanactis* (Ascomycotina). *Bibliotheca Lichenologica* 54: 1-205.
- Egea, J.M., E. Sérusiaux & P. Torrente 1996.** The lichen genus *Lecanactis* and allied genera in Papua New Guinea. *Mycotaxon* 59: 47-59.
- Elix, J.A. 1995.** New species in the lichen family Parmeliaceae (Ascomycotina) from Australasia and Malaysia. *Mycotaxon* 56: 231-241.
- Elix, J.A. 1996a.** A revision of the lichen genus *Relicina*. *Bibliotheca Lichenologica* 62: 1-150.
- Elix, J.A. 1996b.** New species in the lichen family Parmeliaceae (Ascomycotina) from Australasia and Oceania. *Mycotaxon* 59: 407-417.
- Elix, J.A. 1997.** Further new species in the lichen family Parmeliaceae (Ascomycotina) from Australasia. *Mycotaxon* 65: 481-491.
- Elix, J.A. 2007a.** New species in the lichen family Parmeliaceae (Ascomycota) from Australasia. *Bibliotheca Lichenologica* 95: 171-182.
- Elix, J.A. 2007b.** Further new species in the lichen family Parmeliaceae (Ascomycota) from Tropical and subarid Australasia. *Bibliotheca Lichenologica* 96: 61-72.
- Elix, J.A. & G.A. Jenkins 1989.** New species and new records of *Hypogymnia* (lichenized Ascomycotina). *Mycotaxon* 35: 469-476.
- Elix, J.A. & J. Johnston 1986.** New species of *Paraparmelia* (lichenized Ascomycotina) from Australia and New Zealand. *Brunonia* 9: 139-153.
- Elix, J.A., A. Aptroot & A.W. Archer 1997.** The lichen genus *Pertusaria* (lichenised Ascomycotina) in Papua New Guinea and Australia: Twelve new species and thirteen new reports. *Mycotaxon* 64: 17-35.
- Elix, J.A., L.B. Din & G. Ismail 1997.** New species and combinations in the lichen genus *Parmotrema* (Ascomycotina, Parmeliaceae) from Malaysia and Papua New Guinea. *Mycotaxon* 62: 341-347.
- Elix, J.A., J. Johnston & P.A. Armstrong 1986.** A revision of the lichen genus *Xanthoparmelia* in Australasia. *Bulletin of the British Museum (Natural History), Botany* 15: 163-362.
- Elix, J.A., P.A. Bawingan, M. Lardizaval & F. Schumm 2005.** A new species of *Menegazzia* (Parmeliaceae, lichenized Ascomycota) and new records of Parmeliaceae from Papua New Guinea and the Philippines. *Australasian Lichenology* 56: 20-24.
- Etayo, J. 2002.** Aportación al Conocimiento de los Hongos Liqueñícolas de Colombia. *Bibliotheca Lichenologica* 84: 1-154.
- Etayo, J. & P. Diederich 1996.** Lichenicolous fungi from the western Pyrenees, France and Spain III. Species on *Lobaria pulmonaria*. *Bulletin de la Société des Naturalistes Luxembourgeois* 97: 93-118.
- Etayo, J. & P. Diederich 1998.** Lichenicolous fungi from the western Pyrenees, France and Spain IV. Ascomycetes. *Lichenologist* 30: 103-120.

- Ferraro, L.I., R. Lücking & E. Sérusiaux 2001.** A world monograph of the lichen genus *Gyadectidium* (Gomphillaceae). Botanical Journal of the Linnean Society 137: 311-345.
- Galloway, D.J. 1994.** Studies in *Pseudocyphellaria* IV. Paleotropical species (excluding Australia). Bulletin of the British Museum (Natural History), Botany 24: 115-159.
- Galloway, D.J. 1998.** Studies on the lichen genus *Sticta* (Schreber) Ach. V. Australian species. Tropical Bryology 15: 117-160.
- Galloway, D. 2006.** Notes on *Placopsis albida* (Kremp.) I. M. Lamb (Ascomycota: Agyriaceae) from Java and New Ireland, Papua New Guinea. Australasian Lichenology 58: 37-39.
- Gierl, C. & K. Kalb 1993.** Die Flechtengattung *Dibaeis*. Herzogia 9: 593-645.
- Hafellner, J. 1995.** Über *Piccolia*, eine lichenisierte Pilzgattung der Tropen (Ascomycotina, Lecanorales). Bibliotheca Lichenologica 58: 107-122.
- Hafellner, J. 1997.** A world monograph of *Brigantiaea* (lichenized Ascomycotina, Lecanorales). Symbolae Botanicae Upsalienses 32(1): 35-74.
- Harris, R.C. 1986.** The family Trypetheliaceae (loculoascomycetes: lichenized Melanommatales) in Amazonian Brazil. Acta Amazonica Suppl. 14: 55-80.
- Harris, R.C. 1993** ['1991']. A revision of *Polymeridium* (Muell. Arg.) R.C. Harris (Trypetheliaceae). Boletim Museo Paraense Emilio Goeldi, sér. Bot. 7: 619-644.
- Harris, R.C. 1995.** More Florida lichens. New York, privately published, 192 pp.
- Hertel, H. 1987.** Bemerkenswerte Funde südhemisphärischer, saxicoler Arten der Sammelgattung *Lecidea*. Mitteilungen der Botanische Staatssammlung München 23: 321-340.
- Hertel, H. 2007.** Notes on and records of Southern Hemisphere lecideoid lichens. Bibliotheca Lichenologica 95: 267-296.
- Hoffmann, L. & B. Büdel 1992.** Cyanolichens of Papua New Guinea I. Nova Hedwigia 55: 429-436.
- Hoffmann, N. & J. Hafellner 2000.** Eine Revision de lichenicolen Arten der Sammelgattungen *Guignardia* und *Physalospora* (Ascomycotina). Bibliotheca Lichenologica 77: 1-181.
- Holien, H. & T. Tønsberg 2002.** Two new species in the lichen genus *Szczawinskia* A. Funk. Lichenologist 34: 369-372.
- James, P.W., A. Aptroot, P. Diederich, H.J.M. Sipman & E. Sérusiaux 2001.** New species in the lichen genus *Menegazzia* in New Guinea. Bibliotheca Lichenologica 78: 91-108.
- Jørgensen, P.M. 2000.** On the soresiate counterparts of the lichen *Fuscopannaria leucosticta*. The Bryologist 103: 104-107.
- Jørgensen, P.M. 2001.** New species and records of the lichen family Pannariaceae from Australia. Bibliotheca Lichenologica 78: 109-139.
- Jørgensen, P.M. & D.J. Galloway 1989.** Studies in the family Pannariaceae III. The genus *Fuscoderma*, with additional notes and a revised key to *Leioderma*. Lichenologist 21: 295-301.
- Jørgensen, P.M. & H. Kashiwadani 2008.** *Leptogium loriforme* P. M. Jørg. & Kashiw., a new hairy species from Papua New Guinea. Lichenologist 40: 123-125.
- Jørgensen, P.M. & H.J.M. Sipman 2002a.** The lichen genus *Erioderma* in Southeast Asia. Ann. Bot. Fennici 39: 201-211.
- Jørgensen, P.M. & H.J.M. Sipman 2002b.** A new species in the lichen genus *Fuscoderma* from New Guinea. Lichenologist 34: 33-37.
- Jørgensen, P.M. & H.J.M. Sipman 2006.** The lichen family Pannariaceae in the montane regions of New Guinea. Journal of the Hattori Botanical Laboratory 100: 695-720.
- Kalb, K. 2004.** New or otherwise interesting lichens II. Bibliotheca Lichenologica 88: 301-329.
- Kalb, K. & J.A. Elix 1995.** The lichen genus *Physcidia*. Bibliotheca Lichenologica 57: 265-296.
- Kalb, K., R. Lücking & E. Sérusiaux 2000.** Studies in *Bacidia* sensu lato (lichenized ascomycetes: Lecanorales) I. The genus *Bapalmuia*. Mycotaxon 75: 281-309.
- Kärnefelt, E.I. & A. Thell 1993.** Notes on the cetrarioid lichens. Graphis Scripta 5: 45-48.

- Komposch, H., A. Aptroot & J. Hafellner 2002.** New species of lichenized and non-lichenized ascomycetes from a rainforest canopy in southern Venezuela. *Lichenologist* 34: 223-235.
- Leuckert, C. & H. Kümmerling 1991.** Chemotaxonomische Studien in der Gattung *Leproloma* Nyl. ex Crombie (Lichenes). *Nova Hedwigia* 52: 17-32.
- Kondratyuk, S.Y. 1996.** New species of *Pronectria*, *Vouaxiomyces*, *Wentomyces* and *Zwackhiomyces* from Australasia. *Muelleria* 9: 93-104.
- Kurokawa, S. 1986.** Further notes of *Parmelia* (Parmeliaceae) of Papua New Guinea. *Annals of the Tsukuba Botanical Garden* 5: 1-15.
- Kurokawa, S. & K.H. Moon 2000.** New species and new records in *Hypotrachyna* (Parmeliaceae). *Bulletin of the Botanical Garden Toyama* 5: 9-24.
- Lambley, P.W. 1991.** Lichens of Papua New Guinea. pp. 69-84 in: D.J. Galloway, *Tropical Lichens: Their systematics, conservation, and ecology*. Systematics Association special volume 43.
- Louwhoff, S.H.J.J. & J.A. Elix 1999.** *Parmotrema* and allied lichen genera in Papua New Guinea. *Bibliotheca Lichenologica* 73: 1-152.
- Louwhoff, S.H.J.J. & J.A. Elix 2002.** *Hypotrachyna* and allied lichen genera in Papua New Guinea. *Bibliotheca Lichenologica* 81: 1-149.
- Lücking, R. & M. Cáceres 2004.** Corticolous species of *Trichothelium* (Ascomycota: Porinaceae). *Mycological Research* 108: 571-575.
- Lücking, R. & E. Sérusiaux 1998.** *Gyalideopsis cochlearifer*, a new pantropical, commensalistic species on foliicolous *Gomphillaceae*. *Lichenologist* 30: 543-549.
- Lücking, R. & E. Sérusiaux 2005.** *Gomphillus morchelloides* (Ostropales: Gomphillaceae), a new lichen species from Chile and Papua New Guinea. *The Bryologist* 108: 487-490.
- Lücking, R. & A. Vězda 1998.** Taxonomic studies in foliicolous species of the genus *Porina* (lichenized Ascomycotina: *Trichotheliaceae*) - II. The *Porina epiphylla* group. *Willdenowia* 28: 181-225.
- Lücking, R., A.W. Archer & A. Aptroot 2009.** A world-wide key to the genus *Graphis* (Ostropales: *Graphidaceae*). *Lichenologist* 41: 363-452.
- Lücking, R., E. Sérusiaux & H.J.M. Sipman 2000.** New species or interesting records of foliicolous lichens VII. *Calenia flava* (Ostropales: Gomphillaceae). *Tropical Bryology* 19: 55-58.
- Lücking, R., E. Sérusiaux & A. Vězda 2005.** Phylogeny and systematics of the lichen family Gomphillaceae (Ostropales) inferred from cladistic analysis of phenotype data. *Lichenologist* 37: 123-170.
- Lumbsch, H.T. 1994.** Die *Lecanora subfusca*-Gruppe in Australasien. *Journal of the Hattori Botanical Laboratory* 77: 1-175.
- Lumbsch, H.T., G.B. Feige & J.A. Elix 1995.** A revision of the usnic acid containing taxa belonging to *Lecanora* sensu stricto (Lecanorales: lichenized Ascomycotina). *The Bryologist* 98: 561-577.
- Lumbsch, H.T., H. Kashiwadani & H. Streimann 1993.** A remarkable new species in the lichen genus *Placopsis* from Papua New Guinea (lichenized ascomycetes, Agyriaceae). *Plant Systematics and Evolution* 185: 285-292.
- Makhija, U. & P.G. Patwardhan 1993.** A contribution to our knowledge of the lichen genus *Trypethelium* (family Trypetheliaceae). *Journal of the Hattori Botanical Laboratory* 73: 183-219.
- Marbach, B. 2000.** Corticole und lignicole Arten der Flechtengattung *Buellia* sensu lato in den Subtropen und Tropen. *Bibliotheca Lichenologica* 74: 1-384.
- Matzer, M. 1996.** Lichenicolous ascomycetes with fissitunicate asci on foliicolous lichens. *Mycological Papers* 171: 1-202.
- Matzer, M., H. Mayrhofer & J.A. Elix 1997.** *Australiaena streimannii*, a new genus and species in the Physciaceae from tropical Australasia. *Lichenologist* 29: 35-44.
- McCarthy, P.M. & J.A. Elix 1996.** *Myeloconis*, a new genus of pyrenocarpous lichens from the tropics. *Lichenologist* 28: 401-414.

- Navarro-Rosines, P., C. Roux & P. Diederich 1998. *Lichenochora bellemerei* sp. nov., champignon lichénicole non lichénisé (Ascomycetes, Phyllachorales). *Cryptogamie, Bryologie-Lichénologie* 19: 211-219.
- Randlane, T., A. Thell & A. Saag 1995. New data about the genera *Cetrariopsis*, *Cetrelia* and *Nephromopsis* (fam. Parmeliaceae, lichenized Ascomycotina). *Cryptogamie, Bryologie et Lichénologie* 16: 35-60.
- Randlane, T. & A. Saag 1998. Synopsis of the genus *Nephromopsis* (fam. Parmeliaceae, lichenized Ascomycota). *Cryptogamie, Bryologie et Lichénologie* 19: 175-191.
- Santesson, R. 2004. Two new species of *Thamnolia*. *Symbolae Botanicae Upsalienses* 34(1): 393-397.
- Sérusiaux, E. 1986. The nature and origin of campylidia in lichenized fungi. *Lichenologist* 18: 1-35.
- Sérusiaux, E. 1995. Further new lichen species producing campylidia and complex conidiomata. *Bibliotheca Lichenologica* 58: 411-431.
- Sérusiaux, E. 1997. *Sporopodiopsis*, a new genus of lichens (Ectolechiaceae) from S-E Asia. *Abstracta Botanica* 21: 145-152.
- Sérusiaux, E. & A. Aptroot 1998. A further new species of *Monoblastia* (lichenized ascomycetes: Monoblastiaceae) from Papua New Guinea. *Nova Hedwigia* 67: 259-265.
- Sérusiaux, E. & R. Lücking 2001. *Aspidothelium gemmiferum* sp. nov., from Papua New Guinea. *Mycotaxon* 79: 43-49.
- Sérusiaux, E. & R. Lücking 2003. The lichen genus *Caprettia* Bat. & H. Maia (Monoblastiaceae). *Bibliotheca Lichenologica* 58: 161-176.
- Sérusiaux, E., B.J. Coppins & R. Lücking 2007. *Phylloblastia inexpectata* (Verrucariaceae), a new species of foliicolous lichen from Western Europe and Madeira. *Lichenologist* 39: 103-108.
- Sérusiaux, E., R. Lücking & H.T. Lumbsch 2008. *Sporopodium isidiatum* (Pilocarpaceae) new from Papua New Guinea and Sri Lanka, with a key to the world's *Sporopodium* lichen species. *Mycotaxon* 103: 255-262.
- Sérusiaux, E., R. Lücking & L.B. Sparrius 2008. *Opegrapha viridistellata* (Roccellaceae), a new foliicolous lichen species from the Paleotropics. *Mycotaxon* 104: 223-227.
- Sérusiaux, E., B. Goffinet, J. Miadlikowska & O. Vitikainen 2009. Taxonomy, phylogeny and biogeography of the lichen genus *Peltigera* in Papua New Guinea. *Fungal Diversity* 38: 185-224.
- Sipman, H.J.M. 1998. Notes on the lichen genus *Stereocaulon* in New Guinea. *Cryptogamie, Bryologie et Lichénologie* 19: 229-245.
- Sipman, H. 2004. The species of *Lobaria* (lichenized Ascomycetes) in New Guinea. *Bibliotheca Lichenologica* 88: 573-606.
- Sparrius, L.B. 2004. A Monograph of *Enterographa* and *Sclerophyton*. *Bibliotheca Lichenologica* 89: 1-141.
- Staiger, B. 2002. Die Flechtenfamilie Graphidaceae. Studien in Richtung einer natürlicheren Gliederung. *Bibliotheca Lichenologica* 85: 1-526.
- Staiger, B. & K. Kalb 1995. *Haematomma*-studien I. Die Flechtengattung *Haematomma*. *Bibliotheca Lichenologica* 59: 1-198.
- Stenroos, S. 1986. The family Cladoniaceae in Melanesia. 2. *Cladonia* section *Cocciferae*. *Annales Botanici Fennici* 23: 239-250.
- Stenroos, S. 1988a. The family Cladoniaceae in Melanesia. 3. *Cladonia* sections *Helopodium*, *Perviae* and *Cladonia*. *Annales Botanici Fennici* 25: 117-148.
- Stenroos, S. 1988b. The family Cladoniaceae in Melanesia. 4. The genera *Cladia*, *Cladina*, *Calathaspis* and *Thysanothecium*. *Annales Botanici Fennici* 25: 207-217.
- Stevens, G.N. 1991. The tropical Pacific species of *Usnea* and *Ramalina* and their relationship to species in other parts of the world. pp. 47-68 in: D.J. Galloway, *Tropical Lichens: Their systematics, conservation, and ecology*. Systematics Association special volume 43.

- Stevens, G.N. 1999.** A revision of the lichen family Usneaceae in Australia. *Bibliotheca Lichenologica* 72.
- Streimann, H. 1986.** Catalogue of the lichens of Papua New Guinea and Irian Jaya. *Bibliotheca Lichenologica* 22: 1-145.
- Streimann, H. 1990.** New lichen records from New Guinea. *Journal of the Hattori Botanical Laboratory* 68: 255-267.
- Streimann, H. & H.J.M. Sipman 1994.** New lichen records from the island of New Britain in Papua New Guinea. *Fragmenta Floristica et Geobotanica* 39: 369-382.
- Thor, G. 1990.** The lichen genus *Chiodecton* and five allied genera. *Opera Botanica* 103: 1-92.
- Thor, G. 1997.** The genus *Cryptothecia* in Australia and New Zealand and the circumscription of the genus. *Symbolae Botanicae Upsalienses* 33(1): 267-289.
- Tibell, L. 1987.** Australasian Caliciales. *Symbolae Botanicae Upsalienses* 27(1): 1-279.
- Tibell, L. & K. Ryman 1995.** Revision of species of *Chaenothecopsis* with short stalks. *Nova Hedwigia* 60: 199-218.
- Verdon, D. 1990.** New Australasian species and records in the genus *Leptogium* S. Gray (lichenized Ascomycotina: Collemataceae). *Mycotaxon* 37: 413-440.
- Verdon, D., H.J.M. Sipman & D. Glenney 1996.** Additional lichen records from Oceania I. *Australasian Lichenological Newsletter* 38: 21-23.
- Vězda, A. 1994.** Neue foliicole Flechten II. *Nova Hedwigia* 58: 123-143.
- Vězda, A. 2007.** *Gyalideopsis pandani* (lichenisierte Ascomycota, Gomphillaceae), eine neue Art aus Papua New Guinea. *Bibliotheca Lichenologica* 96: 305-309.
- Vitikainen, O. 1989.** Range extension of *Solorina simensis* to Papua New Guinea. *The Lichenologist* 21: 87.
- Yoshimura, I., H.J.M. Sipman & A. Aptroot 1995.** The lichen genus *Anzia* in New Guinea. *Bibliotheca Lichenologica* 58: 439-469.