

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/343753344>

A checklist of lichens known from the Philippines

Article · August 2020

DOI: 10.5943/cream/10/1/29

CITATIONS

2

READS

1,227

4 authors, including:



Jaycee Augusto Gumiran Paguirigan
Suncheon National University

10 PUBLICATIONS 11 CITATIONS

[SEE PROFILE](#)



Alice Da Cruz Lima Gerlach
Universidade Federal do Rio Grande do Sul

25 PUBLICATIONS 153 CITATIONS

[SEE PROFILE](#)

Some of the authors of this publication are also working on these related projects:



Brazilian lichens [View project](#)



Integrative taxonomy to study species of the genus *Usnea* Adans. (lichenized Ascomycetes, Parmeliaceae) in Brazil [View project](#)



A checklist of lichens known from the Philippines

Paguirigan JAG¹, dela Cruz TEE^{1,2*}, Santiago KAA³, Gerlach A⁴, Aptroot A⁴

¹Department of Biological Sciences, College of Science, University of Santo Tomas, España Blvd. 1008 Manila, Philippines

²Fungal Biodiversity, Ecogenomics and Systematics Group, Research Center for the Natural and Applied Sciences, University of Santo Tomas, España Blvd. 1008 Manila, Philippines

³School of Science, Monash University Malaysia, Jalan Lagoon Selatan, 47500 Bandar Sunway, Selangor Darul Ehsan, Malaysia

⁴Laboratório de Botânica/Liquenologia, Instituto de Biociências, Universidade Federal de Mato Grosso do Sul, Avenida Costa e Silva s/n, Bairro Universitário, CEP 79070-900, Campo Grande, Mato Grosso do Sul, Brazil

Paguirigan JAG, dela Cruz TEE, Santiago KAA, Gerlach A, Aptroot A 2020 – A checklist of lichens known from the Philippines. Current Research in Environmental & Applied Mycology (Journal of Fungal Biology) 10(1), 319–376, Doi 10.5943/cream/10/1/29

Abstract

Lichens are formed by the symbiotic partnership between fungi and photoautotrophic algae or cyanobacteria. Lichen species are found all over the world and may grow under diverse and extreme environments and may colonize substrates such as rocks, bark or woody plants, leaves of vascular plants, soil, mosses and other lichen thalli including artificial substrates such as concrete, glass, metals, and plastics. Despite the high diversity of lichens in the tropics, very little information is known about them particularly in the Philippines. So far, the most comprehensive listing of lichens for the country was done by Gruezo in the 70's when he reported 1,108 published taxa distributed in 137 genera, 789 species, 3 subspecies, 153 varieties, 28 formae, and 1 subforma. In recent years, lichenology in the Philippines has progressed beyond species list to diversity, bioactivity, and biomonitoring. Several papers have documented the occurrence and distribution of lichen species from various parts of the Philippines including the Cordillera and Ilocos regions, Bataan, Calabarzon, Pangasinan, Nueva Vizcaya, Negros Occidental, Bukidnon, and Palawan. This paper presents an update on the lichen checklist for the Philippines based on publications in the 40 years following Gruezo's publication in 1979. These studies updated the list of species of lichens in the Philippines to 1,262 published taxa with 1,234 validated species names distributed into 65 families, 229 genera, 10 subspecies, 92 varieties, 15 formae, and 1 subforma.

Key words – archipelago – compendium – species list – taxonomy – tropical lichens

Introduction

Lichen is a symbiotic relationship between a fungus and a photosynthetic organism either an alga, a cyanobacterium, or both. Lichens dominate nearly all terrestrial habitats from the poles to the tropics and from marine to freshwater aquatic habitats. About 18,500 lichen species are recorded worldwide and their global distribution can be accounted by its capacity to colonize numerous substrates such as rocks, bark or woody plants, leaves of vascular plants, soil, mosses and other lichen thalli including artificial substrates such as concrete, glass, metals, and plastics. Ecologically and economically, lichens are important sources of biologically active substances, which exert a wide variety of biological actions including antimicrobial, cytotoxic effects, and

herbicidal activities (Santiago et al. 2010, 2013, De Jesus et al. 2016, Timbreza et al. 2017, Gazo et al. 2019). Lichens do not only contribute to global biodiversity but also play an integral role in nutrient and hydrological cycles and are important in forest ecosystem dynamics. They are valuable sources of forage, shelter, and nesting material for mammals, birds, and invertebrates (Asplund & Wardle 2016).

The lichen flora of the Philippines as earlier noted by Herre (1924, 1946, 1957, 1963) is one of great interests due to the country's geographical position and tropical climate. These ensure that the Philippine lichen flora is relatively as large and diversified as that of the flowering plants. As initially reported by Gruezo (1979), the first literature with historical link to Philippine lichenology includes the lichen collection by F. J. F Meyen, a distinguish German botanist who identified 19 taxa including 1 genus, 9 species, 5 new varieties, 1 form and 4 new records. These are now preserved at the Botanisches Institut der Universitat Kiel in Germany. Gruezo (1979) also mentioned that Camille Montagne described 25 species including species new to science and new additional records when he studied the collections made by Charles Gaudichaud-Beaupre and Hugh Cuming. Other additional species were named from the expedition made by the H.M.S. Challenger in various areas in the Philippine including Zamboanga, Iloilo, Manila, Cebu, Misamis, Zamboanga, Manalipa, Malamui, Basilan and Sta. Cruz.

The coming of the Americans in the country marked the unprecedented progress in the Philippine Botanical history where rapid and extensive collections of botanical specimens were made. The complete set of duplicates of the collections was sent to Edward August Vainio in Finland, which led to the publication of the very first comprehensive treatment of lichens in the Philippines (Gruezo 1979).

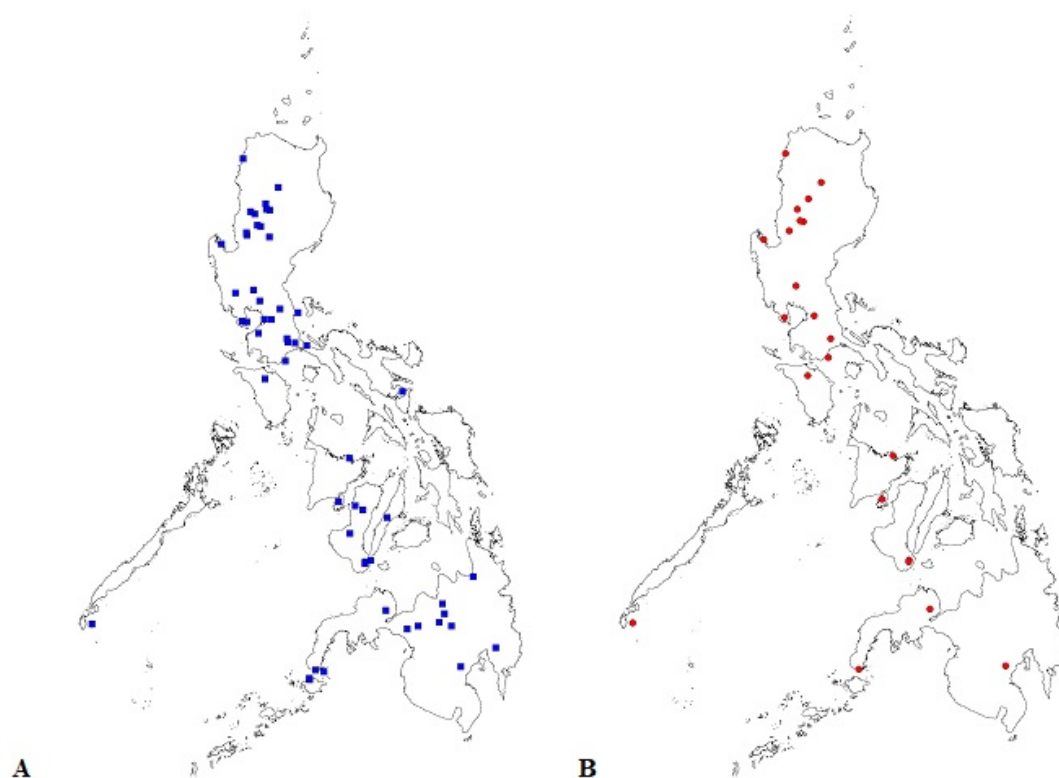


Fig. 1 – Sampling localities: A sites of lichen collections in the Philippines. B sites of lichen taxa discovered in the Philippines.

However, our current knowledge of the Philippine lichen is among the poorest in the world since studies on lichen diversity and its ecology in the country are rare. It was in 1979, where William Gruezo from the University of the Philippines in Los Baños published the most recent

checklist, the Compendium of Philippine Lichens where he noted 1,108 published taxa distributed in 137 genera, 789 species, 3 subspecies, 153 varieties, 28 formae, and 1 subforma. However, only 512 (46%) of these lichens including 6 genera, 1 subspecies, 87 varieties, 18 formae, and 1 subforma have types based in the Philippines. Lichen species were also recorded from various parts of the Philippines, e.g. Negros Occidental (Hale 1975), Laguna, Benguet, Cavite, Batangas, Quezon, Mountain Province, Nueva Vizcaya, and Bataan (Santiago et al. 2010, 2013), and Bukidnon, specifically in Mt. Kalatungan Range Natural Park (Azuelo & Puno 2018). Other studies on lichens were those in Kalahan Forest Reserve in Nueva Vizcaya (Tabaquero et al. 2013), Hundred Islands in Pangasinan (Bawingan et al. 2017), in Mainit Hot Spring in Compostela Valley (Domingo et al. 2015), Baguio (Aptroot & Sipman 1989), Mt. Banahaw in Quezon (De Jesus et al. 2016), Palawan (Sipman et al. 2013), Pangasinan (Fajardo & Bawingan 2019), and in some provinces of Cagayan, Cordillera and Ilocos regions (Joshi et al. 2018, Bawingan et al. 2019). With these studies and the discovery of new records and new species of lichens in the Philippines, this paper aims to provide an updated checklist of lichens reported from the Philippines. This is the first attempt to list together all species recorded from published literature to provide an overview of species of lichens recorded so far in the country.

General Study Area

The Philippines comprises an archipelago of some 7,641 islands that lies between the West Philippine Sea and the Pacific Ocean. The Philippine consists of islands that are assumed to be volcanic in origin as it is geographically part of the Pacific Ring of Fire (Hall 2002). It has mostly mountainous interiors with flat lowlands and alluvial plains with abundant rivers, streams, and lakes (Catibog-Sinha & Heany 2006). The country is therefore gifted with numerous forest ecosystems: lowland montane forest, mossy forest, pine forest and coastal, beach or mangrove forests. The country's climate is tropical and maritime which is characterized by a relatively high temperature and high humidity with abundant annual rainfall similar to other tropical countries of Central America. Based from temperature and rainfall, the seasonality in the Philippines is divided into rainy season from June to November and dry season from December to May. The dry season maybe further subdivided to the cool dry season (December to February) and hot dry season (March to May). Due to erratic rainfall distribution in different areas in the Philippines, four types of climate were also designated on different part of the archipelago. Type I are characterized of having two pronounced season that is dry during November to April and wet during all other months of the year and includes Northwestern Luzon (Ilocos region, western Mt. Provinces) and some part of the Southern Tagalog region. Type II climate has no clear dry period but with a very pronounced rainy season from the months of December to February. There is no single dry month and the minimum annual rainfall occurs during the months of March to May. Southeastern Luzon (Bicol region and Quezon province) are listed under this climate type. Type III has no very pronounced maximum rain period with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles type I since it has a short dry season. The Northeastern part of Ilocos region, scattered islands of Central Visayas and western part of Mindanao has Type III climate type. Lastly, type IV climate is defined to have more or less an evenly distributed rainfall throughout the year, which resembles type II since it has no dry season. This is observed in major Visayas islands like Cebu, Bohol, Western Samar and Southern Mindanao.

Due to its topography and tropical climate, the Philippines is considered as one of the 18 megadiverse countries of the world, containing two-thirds of the earth's biodiversity and between 70% to 80% of the world's plant and animal species (Catibog-Sinha & Heaney 2006). This alone merits a continuous study on its biodiversity including its less explored microbial biota.

Materials and Methods

In this checklist, the species of lichens from the Philippines that have been reported from various literature were written in bold and arranged alphabetically following genera and species,

followed by initially published synonyms of the lichen species enclosed in a square bracket []. Literature pertaining to Philippine lichens is cited. Scientific names were validated from fungal nomenclature databases, Mycobank.org and IndexFungorum.org. Names with ▲ were new species discovered in the Philippines. Names with * were published taxonomic names but not listed in Mycobank.com nor in IndexFungorum.org while names with ** were previously recorded in the Philippines, but these taxa could have been misidentified as other literature do not support their presence in the country. Names NOT in bold were previously published taxa but are no longer accepted names.

Results

List of Lichens for the Philippines

- Acanthothecis incondita* (Nyl.) Staiger & Kalb (Tabaquero et al. 2013)
Acarospora asahinae H. Magn. (Gruezo 1979)
Aderkomycetes albostrigosus fo. ***aggregatus*** Lücking & Vězda (Lücking 2008)
Agonimia tristicula (Nyl.) Zahlbr. (Aptroot & Sipman 1989)
Alectoria indonesica P.M. Jørg. (Gruezo 1979) = *Bryoria indonesica* (P.M. Jørg.) Brodo & D. Hawksw
Allographa acharii (Fée) Lücking & Kalb [as *Graphina acharii* (Fée) Müll. Arg. (Herre 1946)]
Allographa elongate (Zenker) Lücking & Kalb [as *Graphis elongata* Zenker. (Gruezo 1979)]
Allographa fujianensis (Z. F. Jia & J. C. Wei) Lücking & Kalb (Fajardo & Bawingan 2019)
Allographa laubertiana (Fée) Lücking & Kalb (Fajardo & Bawingan 2019)
Allographa lumbricina (Vain.) Lücking & Kalb [as *Graphis lumbricina* Vain. (Tabaquero et al. 2013)]
Allographa pilarensis (Cáceres & Lücking) Lücking & Kalb (Fajardo & Bawingan 2019)
Allographa rustica (Kremp.) Lücking & Kalb [as *Graphis rustica* Kremp. (Tabaquero et al. 2013)]
Allographa striatula (Ach.) Lücking & Kalb [as *Graphis striatula* (Ach.) Spreng. (Vainio 1921, Gruezo 1979, Tabaquero et al. 2013)]
Allographa subdisserpens (Nyl.) Lücking & Kalb [as *Graphis subdisserpens* Nyl. (Tabaquero et al. 2013)]
Alyxoria apomelaena (A. Massal.) Ertz [as *Opegrapha apomelaena* A. Massal. (Bawingan et al. 2014)]
Amandinea efflorescens (Müll. Arg.) Marbach (Aptroot & Sipman 1989)
Amandinea melaxanthella (Nyl.) Marbach (Sipman et al. 2013) [as *Buellia pithecelobii* Vain. (Vainio 1913, Gruezo 1979)]
Amandinea polyspora (Willey) E. Lay & P.F. May [as *Buellia polyspora* (Willey) Vain. (Herre 1951, Gruezo 1979)]
Amygdalaria aeolotera (Vain.) Hertel & Brodo [as *Lecidea aeolotera* Vain. (Vainio 1921, Gruezo 1979)]
Anaptychia comosa (Eschw.) A. Massal (Herre 1951) = *Heterodermia comosa* (Eschw.) Follmann & Redón
Anaptychia dendritica var. *lamelligera* (Tayl.) Vain. (Vainio 1913) = *Heterodermia lamelligera* (Taylor) Trass
Anaptychia dendritica var. *propagulifera* Vain. (Vainio 1913) = *Heterodermia propagulifera* (Vain.) Dey
Anaptychia diademata fo. *condensata* (Kurok.) Kurok. (Vainio 1913, Gruezo 1979) = *Heterodermia diademata* (Taylor) D.D. Awasthi
Anaptychia diademata (Tayl.) Kurok. fo. *diademata* (Vainio 1913, Gruezo 1979) = *Heterodermia diademata* (Taylor) D.D. Awasthi
Anaptychia flabellata (Fée) Mass. var. *flabellata* (Vainio 1913, Gruezo 1979) = *Heterodermia flabellata* (Fée) D.D. Awasthi

Anaptychia flabellata var. *rothbollii* (Vain.) Kurok (Gruezo 1979) = *Heterodermia flabellata* var. *rothboellii*

Anaptychia hypocaesia Yas. ex. Räsänen (Vainio 1913, Gruezo 1979) = *Heterodermia hypocaesia* (Yasuda ex Räsänen) D. D. Awasthi; *Polyblastidium hypocaesium* (Yasuda ex Räsänen) Kalb

Anaptychia hypoleuca (Muhl.) Mass. (Herre 1946) = *Polyblastidium hypoleucum* (Ach.) Kalb

Anaptychia hypoleuca var. *sorediifera* (Müll. Arg.) Vain. (Vainio 1913) = *Heterodermia japonica* (Sato) Swinsc. & Krog (Sipman et al. 2013)

Anaptychia hypoleuca var. *rothbollii* (Vainio 1913) = *Heterodermia flabellata* var. *rothboellii*

Anaptychia isidiophora (Nyl.) Vain. (Vainio 1913, Gruezo 1979) = *Heterodermia isidiophora* (Vain.) D. D. Awasthi

Anaptychia lamelligera (Tayl.) Kurok. (Gruezo 1979) = *Heterodermia lamelligera* (Taylor) Trass

Anaptychia leucomelaena (L.) Vain. (Vainio 1913, Herre 1946) = *Leucodermia leucomelos* (L.) Kalb

Anaptychia speciosa (Wulf.) Mass. (Herre 1946) = *Heterodermia speciosa* (Wulfen) Trevis

Anisomeridium albisedum (Nyl.) R.C. Harris (Sipman et al. 2013)

Anisomeridium ambiguum (Zahlbr.) R.C. Harris

Anisomeridium biforme (Borrer) R.C. Harris (Bawingan et al. 2014)

Anisomeridium consimile (Vain.) R.C. Harris (Vainio 1923, Gruezo 1979, Sipman et al. 2013) [as *Arthopyrenia consimilis* Vain. (Vainio 1923, Gruezo 1979)]

Anisomeridium foliicola R. Sant. & Tibell (Aptroot & Sipman 1989)

Anisomeridium palavanum (Vain.) R.C. Harris (Vainio 1921, Sipman et al. 2013) [as *Microthelia palavana* Vain. (Vainio 1921); *Arthopyrenia pongamiae* Vain. (Vainio 1923, Gruezo 1979, Sipman et al. 2013)]

Anisomeridium terminatum (Nyl.) R.C. Harris [as *Tomasellia queenslandica* Müll.Arg. (Gruezo 1979)]

Anisomeridium ubianum (Vain.) R.C. Harris [as *Arthopyrenia ubiana* Vain. (Vainio 1923, Gruezo 1979)]

Anthracotheceum denudatum (Nyl.) Müll. Arg. (Gruezo 1979) = *Pyrenula parvinuclea* (Meyen & Flot.) Aptroot

Anthracotheceum gibberulosum (Vain.) Zahlbr. = *Pyrenula gibberulosa* (Müll. Arg.) Aptroot [as *Bottaria gibberulosa* Vain. (Vainio 1921, Gruezo 1979)]

Anthracotheceum libricola (Fée) Müll.Arg. = *Pyrenula leucostoma* Ach.

Anthracotheceum macrosporum (Hepp) Müll. Arg. (Sipman et al. 2013) [as *Bottaria columellata* Vain. (Vainio 1921, Gruezo 1979)]

Anzia angustata (Pers.) Müll.Arg. var. *soredimarginata* Räsänen (Gruezo 1979) = *Pannoparmelia angustata* (Pers.) Zahlbr.

Anzia isidiolenta Diederich & Sipman (Jayalal et al. 2012)

*****Anzia ornata*** (Zahlbr.) Asah. (Gruezo 1979) [record probably wrong because species does not occur in this area (Jayalal et al. 2012)]

*****Anzia taeniata*** (Nyl.) Müll.Arg. (Gruezo 1979) [= *Anzia parasitica*, but record probably wrong because species does not occur in this area (Jayalal et al. 2012)]

Arthonia aciniformis Stirt. (Lücking 2008) [as *Arthonia lividofusca* Müll. Arg. and *Arthonia reticulifera* Vain. (Vainio 1921, Gruezo 1979)]

Arthonia antillarum (Fée) Nyl. (Sipman et al. 2013) [as *Arthonia antillarum* (Fée) Nyl. var. *pallidocinerea* Vain. (Vainio 1921, Gruezo 1979)]

▲ ***Arthonia atropallida*** Vain. (Vainio 1921, Gruezo 1979)

▲ ***Arthonia atropunctata*** Vain. (Vainio 1921, Gruezo 1979)

Arthonia bambusicola Vain. (Vainio 1921) = *Arthonia trilocularis* Müll. Arg.

Arthonia calamicola (Syd. & P. Syd.) R.Sant. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) = *Eremothecella calamicola* Syd. & P. Syd.

Arthonia catenatula var. ***subconfluens*** Vain. (Vainio 1921, Gruezo 1979)

Arthonia cinnabarina (DC.) Wallr. Sipman (2013) = *Coniocarpon cinnabarinum* DC.

▲ *Arthonia cocoes* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Arthonia complanata Fée (Vainio 1921, Gruezo 1979)
Arthonia conferta (Fée) Nyl. (Sipman et al. 2013)
Arthonia corallifera Vain. (Vainio 1921) = *Eremothecella calamicola* Syd. & P. Syd.
Arthonia cyanea Müll. Arg. (Gruezo 1979, Sipman et al. 2013)
Arthonia decemlocularis Raés. (Gruezo 1979)
 ***Arthonia didyma* Körb. (Pinas, A. Bawingan et al. 2014) [Record probably wrong because species does not occur in this area (Jayalal et al. 2012)]
Arthonia falcata Vain. (Vainio 1921) = *Arthonia trilocularis* Müll. Arg.
Arthonia gregaria (Weigel) Körb. (Gruezo 1979) = *Coniocarpon cinnabarinum* DC.
Arthonia gregaria (Weigel) Körb. var. *adspersa* (Mont.) Vain. (Vainio 1921, Gruezo 1979) = *Coniocarpon cinnabarinum* DC.
Arthonia gregaria (Weig.) Körb. var. *subsolitaria* Vain. (Vainio 1921, Gruezo 1979) = *Coniocarpon cinnabarinum* DC.
Arthonia herpetica Mey. (Gruezo 1979)
Arthonia interducta Nyl. (Vainio 1921, Gruezo 1979) = *Pyrenula interducta* (Nyl.) Zahlbr. (Sipman et al. 2013)
Arthonia lividofusca Müll. Arg. (Vainio 1921, Gruezo 1979) = *Arthonia aciniformis* Stirt.
 ▲ *Arthonia lividula* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Arthonia macgregorii* Vain. (Vainio 1921)
Arthonia malayana Vain. (Vainio 1921) = *Arthonia palmulacea* (Müll. Arg.) R. Sant.
Arthonia mycoporoides Vain. (Vainio 1921) = *Eremothecella calamicola* Syd. & P. Syd.
Arthonia myriocarpa Müll. Arg. (Vainio 1921, Gruezo 1979)
Arthonia myristicae Vain. (Vainio 1921) = *Arthonia trilocularis* Müll. Arg.
 ▲ *Arthonia opegraphizans* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Arthonia palmulacea (Müll. Arg.) R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008) [also as *Arthonia malayana* Vain.]
Arthonia phaeosporella Vain. (Vainio 1921) = *Arthonia trilocularis* Müll. Arg.
 ▲ *Arthonia picea* Vain. (Vainio 1921, Gruezo 1979)
Arthonia polillensis (Vain.) (Vainio 1921) = *Eremothecella calamicola* Syd. & P. Syd.
Arthonia reticulifera Vain. (Vainio 1921) = *Arthonia aciniformis* Stirt.
 ▲ *Arthonia sorsogona* Vain. (Vainio 1921, Gruezo 1979)
Arthonia stenographella Nyl. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
 ▲ *Arthonia subinvisibilis* Vain. (Vainio 1921, Gruezo 1979)
Arthonia subsimillima Nyl. var. *irosina* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Arthonia thoracifera* Vain. (Vainio 1921, Gruezo 1979)
Arthonia trilocularis Müll. Arg. (Vainio 1921, Gruezo 1979, Lücking 2008) [also as *Arthonia bambusicola* Vain., *A. falcata* Vain., *A. myristicae* Vain., *A. phaeosporella* Vain.]
Arthonia tumidula (Ach.) Ach. (Vainio 1921, Gruezo 1979) = *Coniocarpon cinnabarinum* DC.
Arthonia varia (Ach.) Nyl. var. *stenographella* (Nyl.) Vain. (Vainio 1921, Gruezo 1979)
Arthopyrenia consimilis Vain. (Vainio 1923, Gruezo 1979) = *Anisomeridium consimile* (Vain.) R.C. Harris (Vainio 1923, Gruezo 1979, Sipman et al. 2013)
Arthopyrenia glaucoatra Vain. (Vainio 1923, Gruezo 1979) = *Polymeridium glaucoatrum* (Vain.) R.C. Harris
Arthopyrenia obvelata Vain. (Vainio 1923, Gruezo 1979) = *Polymeridium siamense* (Vain.) Aptroot
Arthopyrenia phlippensis Räsänen (Santesson 1952) = *Mazosia phyllosema* (Nyl.) Zahlbr.
Arthopyrenia pongamiae Vain. (Vainio 1923, Gruezo 1979, Sipman et al. 2013) = *Anisomeridium palavanum* (Vain.) R.C. Harris
Arthopyrenia ubiana Vain. (Vainio 1923, Gruezo 1979) = *Anisomeridium ubianum* (Vain.) R.C. Harris
Arthopyrenia vainioana Raés. ex. Sbarb. (Gruezo 1979)

▲ *Aspicilia philippinensis* Raés. (Gruezo 1979)
Aspidopyrenium insigne var. *dispersa* Vain. (Vainio 1921) = *Aspidothelium scutellcarpum* Lücking
Aspidothelium fugiens (Müll. Arg.) R. Sant. (Vainio 1921, Gruezo 1979)
Aspidothelium scutellcarpum Lücking (Lücking 2008) [as *Aspidopyrenium insigne* var. *dispersa* Vain. (Vainio 1921)]
Aspidothelium verruculosum R. Sant. (Vainio 1921, Gruezo 1979) [as *Thelenella verruculosa* Vain. (Vainio 1921, Gruezo 1979)]
Asterothyrium decipiens (Rehm) R. Sant. (Gruezo 1979, Lücking 2008) [as *Linhartia luzonica* Rehm (Rehm 1914)]
Asterothyrium elmeri Vain. (Vainio 1921) = *Asterothyrium pittieri* Müll. Arg.
Asterothyrium maculans Vain. (Vainio 1921) = *Calenia triseptata* Zahlbr. (Vainio 1921, Gruezo 1979)
Asterothyrium microsporum R. Sant. (Gruezo 1979)
Asterothyrium naevium Vain. (Vainio 1921) = *Rolueckia conspersa* (Stirt.) Papong, Thammath & Boonpr.
Asterothyrium pittieri Müll. Arg. (Vainio 1921, Gruezo 1979, Lücking 2008) [also as *Asterothyrium elmeri* Vain. and *Asterothyrium robinsoni* Vain. (Vainio 1921)]
Asterothyrium robinsoni Vain. (Vainio 1921) = *Asterothyrium pittieri* Müll. Arg.
Asterothyrium rotuliforme (Müll. Arg.) Sérus. & J.R. De Sloover [as *Gyalectidium rotuliforme* Müll. Arg. (Gruezo 1979)]
Astrothelium aeneum (Eschw.) Aptroot & Lücking [as *Trypethelium aeneum* (Bawingan et al. 2014)]
Astrothelium bicolor (Taylor) Aptroot & Lücking (Aptroot & Lücking 2016)
Astrothelium cinereorosellum (Kremp.) Aptroot & Lücking (Lücking et al. 2016)
Astrothelium euthelium (Lücking et al. 2016)
Astrothelium flavomeristosporum Aptroot (Aptroot et al. 2016)
Astrothelium heterophorum Nyl. (Aptroot & Lücking 2016) [as *Pseudopyrenula elmeri* Vain. (Vainio 1921), *Trypethelium elmeri* Vain. (Vainio 1921)]
Astrothelium meristosporum (Mont. & Bosch) Aptroot & Lücking (Lücking et al. 2016) [as *Thelenella cinereoglaucula* Vain. (Vainio 1921, Gruezo 1979)]
 ▲ *Astrothelium philippinense* Aptroot & Schumm (Aptroot et al. 2016)
Astrothelium porosum (Ach.) Aptroot & Lücking (Aptroot & Lücking 2016)
Astrothelium subfuscum Kremp. (Aptroot & Lücking 2016)
Astrothelium ubianense (Vain.) Aptroot & Lücking (Aptroot & Lücking 2016) [as *Pseudopyrenula ubianense* Vain. (Vainio 1921), *Trypethelium ubianense* Vain. (Vainio 1921)]
Astrothelium versicolor Müll. Arg. (Aptroot & Lücking 2016)
Aulaxina epiphylla (Zahlbr.) R. Sant. (Gruezo 1979)
Aulaxina microphana (Vain.) R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008)
Aulaxina opegraphina Fée (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Opegrapha insularis* Vain. (Vainio 1921)]
Austrotrema bicinctulum (Nyl.) Medeiros, Lücking & Lumbsch (Fajardo & Bawingan 2019)
 ▲ *Bacidia albidocincta* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)
Bacidia apiatica (Müll. Arg.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Bacidina apiatica* (Müll. Arg.) Vězda
 ▲ *Bacidia banoensis* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Bacidia bicolor* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Bacidia carneocinerea* Vain. (Vainio 1921, Gruezo 1979)
Bacidia cateilea (Vain.) R. Sant. (Gruezo 1979) = *Badimia cateilea* (Vain.) Lücking, Lumbsch & Elix.
Bacidia cylindrophora (Taylor) Kistenich, Timdal, Bendiksby & S. Ekman [as *Megalopsora cylindrophora* (Tayl.) Vain. (Vainio 1921, Gruezo 1979)]

Bacidia elegans (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Badimia elegans* (Vain.) Vězda
Bacidia gabrielis (Müll.-Arg.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Loflammia gabrielis* (Müll. Arg.) Vězda (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Bacidia galbinea (Krmph.) Zahlbr. (Gruezo 1979) = *Badimia galbinea* (Kremp.) Vězda.
 ▲ *Bacidia glaucofuscescens* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Bacidia glaucorufa* Vain. (Vainio 1921, Gruezo 1979)
Bacidia howardi Herre (Gruezo 1979)
 ▲ *Bacidia hypoptiza* Vain. (Vainio 1921, Gruezo 1979, Sipman 2010)
 ▲ *Bacidia isidiocheila* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Bacidia kalingensis* Herre (Herre 1951, Gruezo 1979)
Bacidia leptocarpa Vain. (Vainio 1921) = *Semigyalecta paradoxa* Vain.
Bacidia malayana Vain. (Vainio 1921) = *Bacidina apiahica* (Müll. Arg.) Vězda
 ▲ *Bacidia mammifera* Herre (Gruezo 1979)
 ▲ *Bacidia manilensis* Vain. (Vainio 1921, Gruezo 1979)
Bacidia marginalis (Vain.) R. Sant. (Gruezo 1979) = *Bapalmuia marginalis* (Vain.) Sérus.
Bacidia mastothallina Vain. (Vainio 1921, Gruezo 1979) = *Fellhanera mastothallina* (Vain.) Lücking & Sérus.
Bacidia medialis (Tuck.) Zahlbr. (Pinas, A. et al.) = *Bacidina medialis* (Tuck. ex Nyl.) Kistenich, Timdal, Bendiksby & S. Ekman
 ▲ *Bacidia merrillii* Vain. (Vainio 1921, Gruezo 1979)
Bacidia micrommata (Kremp.) R. Sant. (Vainio 1921, Gruezo 1979) = *Eugeniella micrommata* (Kremp.) Lücking, Sérus. et Kalb
Bacidia naevia Vain. (Vainio 1921, Gruezo 1979) = *Fellhanera naevia* (Vain.) Lücking
 ▲ *Bacidia negrosensis* Herre (Herre 1951)
Bacidia olivaceorufa Vain. (Vainio 1921, Gruezo 1979) = *Brasilicia olivaceorufa* (Vězda) (Farkas 2015)
Bacidia pallidula (Krmph.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Badimia pallidula* (Kremp.) Vězda
Bacidia palmularis (Müll.Arg.) Zahlbr. (Gruezo 1979) = *Bapalmuia palmularis* (Müll. Arg.) Sérus.
Bacidia perminuta Vain. (Vainio 1921) = *Bacidina apiahica* (Müll. Arg.) Vězda
Bacidia perminuta Vain. var. *foliicola* Vain. (Vainio 1921) = *Bacidina apiahica* (Müll. Arg.) Vězda
 ▲ *Bacidia perminuta* Vain. var. *leeae* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Bacidia philipina* (Vain.) Zahlbr. (Herre 1951)
Bacidia polillensis (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Badimia polillensis* (Vain.) Vězda
 ▲ *Bacidia polisensis* Herre (Herre 1951, Gruezo 1979)
 ▲ *Bacidia purpurascens* Vain. (Vainio 1921, Gruezo 1979)
Bacidia rhapsidophylli (Rehm) Zahlbr. (Vainio 1921, Gruezo 1979) = *Fellhanera rhapsidophylli* (Rehm) Vězda.
Bacidia robinsonii (Vain.) M. Lamb (Gruezo 1979) [as *Toninia robinsonii* Vain. (Vainio 1921)]
Bacidia subternella (Nyl.) R. Sant. (Vainio 1921, Gruezo 1979) = *Fellhanera subternella* (Nyl.) Vězda., *Byssoloma sprucei* (C. Bab. ex Müll. Arg.) Lücking & M. Cáceres
Bacidia triseptata (Hepp) Zahlbr. (Gruezo 1979) = *Septotrapelia triseptata* (Hepp) Aptroot
Bacidia vieillardii (Müll.Arg.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Badimia viellardii* (Müll. Arg.) Vězda.
Bacidina apiahica (Müll. Arg.) Vězda (Lücking 2008) [as *Bacidia apiahica* (Muell.-Arg.) Zahlbr. (Vainio 1921, Gruezo 1979), as *Bacidia malayana* Vain. (Vainio 1921), *Bacidia perminuta* Vain., including var. *foliicola* Vain. (Vainio 1921)]
Bacidina medialis (Tuck. ex Nyl.) Kistenich, Timdal, Bendiksby & S. Ekman [as *Bacidia medialis* (Tuck.) Zahlbr. (Bawingan et al. 2014)]
Badimia cateilea (Vain.) Lücking, Lumbsch & Elix. [as *Bacidia cateilea* (Vain.) R. Sant. (Gruezo 1979)]

Badimia elegans (Vain.) Vězda [as *Bacidia elegans* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Badimia galbinea (Kremp.) Vězda. [as *Bacidia galbinea* (Krmph.) Zahlbr. (Gruezo 1979)]
Badimia pallidula (Kremp.) Vězda [as *Bacidia pallidula* (Krmph.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Badimia polillensis (Vain.) Vězda [as *Bacidia polillensis* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Badimia viellardii (Müll. Arg.) Vězda. [as *Bacidia viellardii* (Müll.Arg.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Baeomyces absolutus fo. *subsessilis* Tuck (Vainio 1921, Gruezo 1979)
Baeomyces absolutus Tuck. var. *stipitatus* (Mont.) Vain (Vainio 1921, Gruezo 1979)
Baeomyces capitatus Vain. (Vainio 1921, Gruezo 1979)
Baeomyces crenulatus Hepp var. *subsessilis* (Mont. & v.d. Bosch) Nyl. (Vainio 1921, Gruezo 1979)
Baeomyces fungoides (Sw.) Ach. (Vainio 1921, Gruezo 1979) = *Dibaeis arcuata* (Stirt.) Kalb & Gierl
Baeomyces heteromorphus Nyl. (Vainio 1921, Gruezo 1979)
▲ *Baeomyces pulogensis* Vain. (Vainio 1921, Gruezo 1979)
Baeomyces ramalinellus Nyl. (Gruezo 1979) = *Dibaeis arcuata* (Stirt.) Kalb & Gierl
Baeomyces ramalinellus Nyl. var. *genuinus* (Müll.Arg.) Vain. (Vainio 1921, Gruezo 1979)
Bapalmuia marginalis (Vain.) Sérus. [as *Bacidia marginalis* (Vain.) R. Sant. (Gruezo 1979)]
Bapalmuia palmularis (Müll. Arg.) Sérus. [as *Bacidia palmularis* (Müll.Arg.) Zahlbr. (Gruezo 1979)]
Biatorrella elmeri Vain. (Vainio 1921, Gruezo 1979) = *Piccolia elmeri* (Vain.) Hafellner
Bilimbina annua Vain. (Vainio 1921) = *Byssoloma annuum* (Vain.) G. Thor, Lücking & Tat. Matsumoto
Bilimbina caryotae Vain. (Vainio 1921) = *Fellhanera rhapsidophylli* (Rehm) Vězda
Bilimbina microdiscus Vain. (Vainio 1921, Gruezo 1979) = *Fellhanera microdiscus* (Vain.) Vězda
Bilimbina microphana Vain. (Vainio 1921) = *Aulaxina microphana* (Vain.) R. Sant.
▲ *Bilimbina philippina* Vain. (Vainio 1921, Gruezo 1979)
▲ *Bilimbina philippina* var. *vulcanica* Vain. (Gruezo 1979)
▲ *Bilimbina rubiginosa* Vain. (Vainio 1921, Gruezo 1979)
▲ *Bilimbina weberi* Vain. (Vainio 1921, Gruezo 1979)
Blennothallia crispa (Weber ex F.H. Wigg.) Otálora, P.M. Jørg. & Wedin (Paguirigan et al. 2019)
Bogoriella collospora (Vain.) Aptroot & Lücking [as *Bottaria collospora* Vain. (Vainio 1921, Gruezo 1979)]
Bogoriella decipiens (Müll. Arg.) Aptroot & Lücking (Aptroot & Lücking 2016)
Bogoriella hemisphaerica (Müll. Arg.) Aptroot & Lücking [as *Didymosphaeria philippina* Vain. (Vainio 1921, Aptroot & Lücking 2016), *Didymosphaeria philippina* Vain. (Vainio 1921)]
Bogoriella miculiformis (Nyl. ex Müll. Arg.) Aptroot & Lücking (Aptroot & Lücking 2016) [as *Didymosphaeria coccifera* Vain. (Vainio 1921)]
Bogoriella obovata (Stirt.) Aptroot & Lücking (Aptroot & Lücking 2016)
Bogoriella punctata (Aptroot) Aptroot & Lücking (Aptroot & Lücking 2016)
Bogoriella subfallens (Müll. Arg.) Aptroot & Lücking (Aptroot & Lücking 2016) [as *Didymosphaeria coccifera* var. *cinereorubricosa* Vain. (Vainio 1921)]
Bogoriella thelena (Ach.) Aptroot & Lücking (Aptroot & Lücking 2016) [as *Didymosphaeria palaquii* Vain. (Vainio 1921)]
Bombyliospora angela Herre (Herre 1951, Gruezo 1979) = *Megalospora tuberculosa* (Fée) Sipman
Bombyliospora domingensis var. *colorata* Vain. (Vainio 1921, Gruezo 1979) = *Letrouitia domingensis* (Pers.) Hafellner & Bellem.
Bombyliospora domingensis var. *glaucotropia* Nyl. (Vainio 1921, Gruezo 1979) = *Letrouitia domingensis* (Pers.) Hafellner & Bellem.

Bombyliospora melanocarpa (Nyl.) A. Massal. (Vainio 1921, Gruezo 1979) = *Megalospora tuberculosa* (Vain.) R. Sant.

Bombyliospora nigrata (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979) = *Megalospora tuberculosa* (Vain.) R. Sant.

Bottaria albidopallens Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula papillifera* (Nyl.) Aptroot

Bottaria collospora Vain. (Vainio 1921, Gruezo 1979) = *Bogoriella collospora* (Vain.) Aptroot & Lücking

Bottaria columellata Vain. (Vainio 1921, Gruezo 1979) = *Anthracotheceium macrosporum* (Hepp) Müll. Arg.

Bottaria confinis (Nyl.) Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula confinis* (Nyl.) R.C. Harris

Bottaria connectens Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula confinis* (Nyl.) R.C. Harris

Bottaria denudata (Nyl.) Vain. (Vainio 1921) = *Pyrenula parvinuclea* (Meyen & Flot.) Aptroot

Bottaria endococcinea Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula leucostoma* Ach.

Bottaria erythrinae Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula leucostoma* Ach.

Bottaria gibberulosa Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula gibberulosa* (Müll. Arg.) Aptroot

Bottaria libricola (Fée) Vain. (Vainio 1921) = *Pyrenula leucostoma* Ach. (Gruezo 1979, Vainio 1921)

Bottaria ochrotropa (Nyl.) Vain. = *Pyrenula ochraceoflava* (Nyl.) R.C. Harris (Vainio 1921, Gruezo 1979)

Bottaria ochrotropa (Nyl.) Vain. var. *cinnamomea* Räsänen = *Pyrenula ochraceoflava* (Nyl.) R.C. Harris (Gruezo 1979)

Bottaria subconnectens Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula parvinuclea* (Meyen & Flot.) Aptroot

Bottaria submucosa Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula leucostoma* Ach.

Brasilicia olivaceorufa (Vězda) (Farkas 2015) [as *Bacidia olivaceorufa* Vain. (Vainio 1921, Gruezo 1979)]

Brigantiaea leucoxantha (Spreng.) R. Sant. & Hafellner (Aptroot & Sipman 1989) [as *Sporopodium ochrolechioides* Vain. (Vainio 1921, Gruezo 1979)]

Brigantiaea pulchra (Müll. Arg.) Hafellner [as *Sporopodium leucoxanthoides* var. *epiphaeoides* Vain. (Vainio 1921, Gruezo 1979), *Sporopodium leucoxanthoides* var. *ochraceopruinosa* Vain. (Vainio 1921, Gruezo 1979)]

Bryoria indonesica (P.M. Jørg.) Brodo & D. Hawksw. [as *Alectoria indonesica* P.M. Jørg. (Gruezo 1979)]

Buellia disciformis (Fr.) Mudd (Lucban & Paguirigan 2019)

Buellia isidiata Herre (Herre 1951) = *Cratiria dissimilis* (Nyl.) Marbach

Buellia lauricassiae (Fée) Müll. Arg. (Vainio 1913, Gruezo 1979) = *Cratiria lauricassiae* (Fée) Marbach

Buellia philippina Räsänen (Herre 1951, Gruezo 1979) = *Cratiria dissimilis* (Nyl.) Marbach

Buellia pithecelobii Vain. (Vainio 1913, Gruezo 1979) = *Amandinea melaxanthella* (Nyl.) Marbach

Buellia pithecelobii Vain. var. *reagens* Räsänen (Gruezo 1979) = *Stigmatochroma adaucta* (Malme) Marbach

Buellia polyspora (Willey) Vain. (Herre 1951, Gruezo 1979) = *Amandinea polyspora* (Willey) E. Lay & P.F. May

Buellia stellulata (Taylor) Mudd. (Herre 1951, Gruezo 1979)

▲ ***Buellia tablasensis*** Herre (Gruezo 1979)

Buellia vaccinii Vain. (Vainio 1913, Gruezo 1979) = *Gassicurtia vaccinii* (Vain.) Marbach, Elix & Kalb

Bulbothrix bulbochaeta (Hale) Hale [as *Parmelia bulbochaeta* Hale. (Gruezo 1979)]

Bulbothrix goebelii (Zenker) Hale (Gruezo 1979)

Bulbothrix isidiza (Nyl.) Hale (Gruezo 1979, Lucban & Paguirigan 2019, Bawingan et al. 2019)

Bulbothrix laevigatula (Nyl.) Hale [as *Parmelia hookeri* Tayl. (Vainio 1909, Gruezo 1979), *Parmelia laevigatula* Nyl. (Gruezo 1979)]

Bulbothrix pigmentacea (Hale) Hale (Gruezo 1979, Bawingan et al. 2019)

Bulbothrix subdissecta (Nyl.) Hale [as *Parmelia subdissecta* Nyl. (Vainio 1909, Gruezo 1979, Bawingan et al. 2019)]

Bulbothrix subinflata (Hale) Hale (Gruezo 1979) = *Parmelinopsis subinflata* (Hale) Benatti & Marcelli

Bulbothrix sublaevigatula (Nyl.) Hale [as *Parmelia sublaevigata* Nyl. fo. *isidiosa* Müll. Arg. (Gruezo 1979)]

Bulbothrix tabacina (Mont. & v.d. Bosch) Hale (Gruezo 1979, Bawingan et al. 2019)

Bulbothrix viridescens (Lynge) Hale = *Parmelia isidiza* Nyl. (Bawingan et al. 2019)

Bullatina aspidota (Vain.) Vězda & Poelt [as *Gyalectidium aspidotum* (Vain.) R. Sant. (Vainio 1921, Gruezo 1979), *Ectolechia aspidota* Vain. (Vainio 1921)]

Bunodophoron diplotypum (Vain.) Wedin [as *Sphaerophorus diplotypus* Vain. (Vainio 1921, Gruezo 1979)]

Bunodophoron melanocarpum (Sw.) Wedin [as *Sphaerophorus compressus* Ach. (Vainio 1921, Gruezo 1979)]

Byssolecania fumosonigricans (Müll.Arg.) R. Sant. (Vainio 1921, Gruezo 1979)

Byssoloma annuum (Vain.) G. Thor, Lücking & Tat. Matsumoto [as *Bilimbia annua* Vain. (Vainio 1921)]

Byssoloma discordans (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) [as *Byssoloma discordans* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979), *Pilocarpon subnebulosum* Vain. (Vainio 1921)]

Byssoloma leucoblepharum (Nyl.) Vain. (Vainio 1921, Gruezo 1979) [as *Pilocarpon cinereonigricans* Vain. (Vainio 1921), *Pilocarpon ectolechioides* Vain. (Vainio 1921, Gruezo 1979)]

Byssoloma sprucei (C. Bab. ex Müll. Arg.) Lücking & M. Cáceres [as *Bacidia subternella* (Nyl.) R. Sant. (Vainio 1921, Gruezo 1979)]

Byssoloma tricholomum (Mont.) Zahlbr. (Gruezo 1979)

Calenia conspersa (Stirt.) R. Sant. (Vainio 1921, Gruezo 1979) = *Rolueckia conspersa* (Stirt.) Papong, Thammath & Boonpr.

Calenia depressa Müll.Arg. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Calenia leucothrix* Vain. (Vainio 1921), *Calenia meiospora* Vain. (Vainio 1921)]

▲ ***Calenia graphidea*** Vain. (Vainio 1921, Gruezo 1979, Lücking 2008)

Calenia graphideoides Vain. (Vainio 1921) = *Calenia phyllogena* (Müll. Arg.) R. Sant.

▲ ***Calenia leptocarpa*** Vain. (Vainio 1921, Gruezo 1979)

Calenia leucothrix Vain. (Vainio 1921) = *Calenia depressa* Müll. Arg.

Calenia leucothrichoides Vain. (Vainio 1921) = *Echinoplaca leucothrichoides* (Vain.) R. Sant.

Calenia maculans (Vain.) R. Sant. (Vainio 1921, Gruezo 1979) = *Calenia triseptata* Zahlbr.

Calenia meiospora Vain. (Vainio 1921) = *Calenia depressa* Müll. Arg.

Calenia phyllogena (Müll.Arg.) R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Calenia graphideoides* Vain. (Vainio 1921)]

Calenia subdepressa Lücking (Lücking 2008)

Calenia thelotremella Vain. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Calenia thelotremella* var. *lacinulata* Vain. (Vainio 1921)]

Calenia thelotremella var. *lacinulata* Vain. (Vainio 1921) = *Calenia thelotremella* Vain.

Calenia triseptata Zahlbr. (Lücking 2008) [as *Calenia maculans* (Vain.) R. Sant. (Vainio 1921, Gruezo 1979)]

Calenia yucatanensis Hedrick (Gruezo 1979)

▲ ***Calicium bryophilum*** Vain. (Vainio 1921, Gruezo 1979)

Calicium glaucellum Ach. (Aptroot & Sipman 1989)

Calicium hyperelloides Nyl. (Aptroot & Sipman 1989)

Calopadia foliicola (Fée) Vězda [as *Lopadium foliicola* (Fée) R. Sant. (Gruezo 1979)]

Calopadia fusca (Müll.Arg.) Vězda [as *Lopadium fuscum* Müll.Arg. (Gruezo 1979)]

Calopadia phyllogenum (Müll. Arg.) Vězda [as *Lopadium phyllogenum* (Müll.Arg.) Zahlbr. (Gruezo 1979), *Sporopodium duplicatum* Vain. (Vainio 1921)]

Calopadia puiggarii (Müll.Arg.) Vězda [as *Lopadium puiggarii* (Müll.Arg.) Zahlbr. (Vainio 1921, Gruezo 1979)]

Calopadia vermiculifera (Vain.) Sérus. [as *Lopadium vermiculiferum* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979), *Sporopodium vermiculiferum* Vain. (Vainio 1921)]

▲ *Calopadiopsis tayabasensis* (Vain.) Lücking & R. Sant. [as *Lopadium tayabasense* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979), *Sporopodium tayabasense* var. *divergescens* Vain. (Vainio 1921), *Sporopodium tayabasense* var. *lividescens* Vain. (Vainio 1921)]

Candelaria concolor (Dicks.) Stein (Aptroot & Sipman 1989)

Candelaria crawfordii (Müll. Arg.) P.M. Jørg and D.J. Galloway [as *Candelaria indica* (Hue) Vain. Vainio (1913) (Vainio 1913, Gruezo 1979)]

Candelaria indica (Hue) Vain. Vainio (1913) (Vainio 1913, Gruezo 1979) = *Candelaria crawfordii* (Müll. Arg.) P.M. Jørg. and D.J. Galloway

Canoparmelia aptata (Kremp.) Elix & Hale (De Jesus et al. 2016)

Catarraphia dictyoplaca (Mont. & Bosch) A. Massal (Vainio 1921) [as *Cyclographa interposita* Vain. (Vainio 1921, Gruezo 1979)]

Catillaria bouteillei (Desm.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Fellhanera bouteillei* (Desm.) Vězda

▲ *Catillaria kayabanensis* Vain. (Vainio 1921, Gruezo 1979)

▲ *Catillaria maquilingsensis* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)

▲ *Catillaria meizosphthalma* Vain. (Vainio 1921, Gruezo 1979)

▲ *Catillaria microphthalma* Vain. (Vainio 1921)

▲ *Catillaria ophthalmocarpa* Vain. (Vainio 1921, Gruezo 1979)

▲ *Catillaria pauaiensis* Vain. (Vainio 1921, Gruezo 1979)

Catillaria semecarpi Vain. (Vainio 1921, Gruezo 1979) = *Fellhanera semecarpi* (Vain.) Vězda

Catillaria sulphurata (Mey. & Flot.) Vain. var. *lecanocheila* Vain. (Vainio 1921, Gruezo 1979) = *Megalospora sulphurata* Meyen

Catillaria sulphurata (Mey. & Flot.) Vain. var. *ochrocheila* Vain. (Vainio 1921, Gruezo 1979) = *Megalospora sulphurata* Meyen

Catillaria sulphurata (Mey. & Flot.) Vain. var. *phaeocheila* Vain. (Gruezo 1979, Vainio 1921) = *Megalospora sulphurata* Meyen

Chapsa lepieurii (Mont.) Frisch [as *Thelotrema confluens* Vain. (Vainio 1921, Gruezo 1979)]

Chapsa waasii (Hale) Sipman & Lücking (Sipman et al. 2013)

Celothelium cinchonarum (Müll. Arg.) Vain. (Vainio 1915, Sipman et al. 2013)

Cetraria straminea Vain. (Vainio 1909) = *Nephromopsis straminea* Räsänen

Cetraria straminea Vain. var. *sorediata* Räsänen (Gruezo 1979) = *Nephromopsis straminea* Räsänen

Cetrelia braunsiana (Müll. Arg.) W. Culb & C. Culb. (Gruezo 1979)

Cetrelia cetrarioides (Delise) W.L. Culb & C.L. Culb [as *Parmelia cetrarioides* Delise (Herre 1951, Gruezo 1979)]

Cetrelia chicitae (W. Culb.) W. Culb & C. Culb (Gruezo 1979)

Chapsa indica A. Massal. (Fajardo & Bawingan 2019)

Chiodecton anguinellum (Nyl.) Vain. (Vainio 1921) = *Nyungwea anguinella* (Nyl.) Aptroot

Chiodecton angustissimum Vain. (Vainio 1921) = *Enterographa angustissima* (Vain.) R. Sant.

Chiodecton bambusae Vain. (Vainio 1921) = *Mazosia bambusae* (Vain.) R. Sant.

Chiodecton calophylli Vain. (Vainio 1921, Gruezo 1979) = *Nyungwea anguinella* (Nyl.) Aptroot

Chiodecton congestulum Nyl. (Sipman et al. 2013)

Chiodecton dispersellum Vain. (Vainio 1921, Gruezo 1979) = *Mazosia phyllosema* (Nyl.) Zahlbr.

▲ *Chiodecton emergens* Vain. (Vainio 1921, Gruezo 1979)

Chiodecton endococcineum Vain. (Vainio 1921) = *Erythrodictyon malacum* (Kremp.) G. Thor

▲ ***Chiodecton fuscocinctum*** Vain. (Vainio 1921, Gruezo 1979)
Chiodecton granulare (Müll. Arg.) Vain. (Gruezo 1979)
Chiodecton granulare var. *subpruinoseum* Vain. (Vainio 1921, Gruezo 1979) = *Mazosia melanophthalma* (Müll. Arg.) R. Sant.
Chiodecton hamatum var. *dispersum* Vain. (Vainio 1921, Gruezo 1979) = *Dichosporidium boschianum* (Mont.) G. Thor
Chiodecton inconspicuum Knight & Mitt. (Vainio 1921, Gruezo 1979)
Chiodecton mycelioides Vain. (Vainio 1921, Gruezo 1979) = *Cryptonia mycelioides* (Vain.) Frisch & G. Thor
Chiodecton natalense Nyl. (Vainio 1921, Gruezo 1979)
Chiodecton philippinum Vain. (Vainio 1921, Gruezo 1979) = *Herpothallon phillippinum* (Vain.) Aptroot & Lücking (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Chiodecton piperis var. *manilense* Vain. (Vainio 1921, Gruezo 1979) = *Graphidastra multififormis* (Mont. & Bosch) G. Thor
 ▲ ***Chiodecton podophthalmum*** Vain. (Vainio 1921, Gruezo 1979)
Chiodecton polillense Vain. (Vainio 1921, Gruezo 1979) = *Cryphonina polillensis* (Vain.) Frisch & G. Thor
Chiodecton ramosii Vain. (Vainio 1921, Gruezo 1979) = *Mazosia phyllosema* (Nyl.) Zahlbr.
Chiodecton strigulinum (Nyl.) Vain. (Vainio 1921, Gruezo 1979)
Chroodiscus mirificus (Kremp.) R. Sant. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Phyllobrassia mirifica* var. *integra* Vain. (Vainio 1921), *Phyllobrassia mirifica* var. *radicans* Vain. (Vainio 1921)]
Chrysothrix candelaris (L.) J. R. Laundon (Aptroot & Sipman 1989)
Cladia aggregata (Sw.) Nyl. (Vainio 1921, Gruezo 1979)
Cladina luzonensis (Ahti) Gruezo (Vainio 1921, Gruezo 1979) = *Cladonia luzonensis* Ahti
Cladonia arbuscula subsp. *arbuscula* (Wallr.) Flot. [as *Cladonia sylvatica* (L.) Rabenh. (Vainio 1921, Herre 1946)]
Cladonia attendenda Vain. (Vainio 1921, Gruezo 1979)
Cladonia bacillaris (Ach.) Genth (Vainio 1921, Herre 1946, Gruezo 1979) = *Cladonia macilenta* Hoffm.
Cladonia bellidiflora (Ach.) Schaer. (Gruezo 1979)
Cladonia calycantha (Del.) Nyl. (Vainio 1921, Gruezo 1979)
Cladonia cervicornis subsp. *verticillata* (Hoffm.) Ahti [as *Cladonia verticillata* Hoffm. (Herre 1946), *Cladonia verticillata* (Hoffm.) Schaer. var. *verticillata* (Vainio 1921, Gruezo 1979)]
Cladonia coccifera (L.) Willd. (Vainio 1921, Herre 1946, Gruezo 1979)
Cladonia corymbescens (Nyl.) Nyl. (Aptroot & Sipman 1989)
Cladonia didyma (Fée) Vain. (Vainio 1921, Herre 1946, Gruezo 1979)
Cladonia floerkeana (Fr.) Florke (Vainio 1921, Herre 1946)
Cladonia floerkeana var. *chloroides* (Flörke) Vain. (Vainio 1921, Gruezo 1979)
Cladonia formosana Asahina (Herre 1951) = *Cladonia subpityrea* Sandst.
Cladonia fruticulosa Kremp. (Sipman 2010)
Cladonia furcata (Huds.) Schrader (Vainio 1921, Herre 1946, Gruezo 1979) = *Cladonia furcata* subsp. *furcata* (Huds.) Schrad.
Cladonia furcata subsp. *furcata* (Huds.) Schrad. [as *Cladonia furcata* (Huds.) Schrader (Vainio 1921, Herre 1946, Gruezo 1979)]
Cladonia gracilis (L.) Willd. (Vainio 1921, Herre 1946, Gruezo 1979, Santiago et al. 2010)
Cladonia gymnopoda Vain. (Vainio 1921, Gruezo 1979)
Cladonia macilenta Hoffm. [as *Cladonia bacillaris* (Ach.) Genth (Vainio 1921, Herre 1946, Gruezo 1979)]
Cladonia pityrea (Floerke) Fr. (Vainio 1921, Herre 1946, Gruezo 1979) = *Cladonia ramulosa* (With.) J.R. Laundon
 ▲ ***Cladonia luzonensis*** Ahti [as *Cladina luzonensis* (Ahti) Gruezo (Vainio 1921, Gruezo 1979)]

Cladonia phyllopoda (Vain.) S. Stenroos. [as *Cladonia pityrea* (Florke) Fr. var. *phyllopoda* Vain. (Vainio 1921, Gruezo 1979)]

Cladonia pityrea (Florke) Fr. var. ***javanica*** (Hepp) Vain. (Vainio 1921, Gruezo 1979)

Cladonia pityrea (Florke) Fr. var. *phyllopoda* Vain. (Vainio 1921, Gruezo 1979) = *Cladonia phyllopoda* (Vain.) S. Stenroos.

Cladonia pityrea (Florke) Fr. var. ***regenerans*** Vain. (Vainio 1921, Gruezo 1979)

Cladonia ramulosa (With.) Laundon [as *Cladonia pityrea* (Floerke) Fr. (Vainio 1921, Herre 1946, Gruezo 1979)]

Cladonia rappii Evans (Aptroot & Sipman 1989)

Cladonia scabriuscula (Del.) Nyl. (Gruezo 1979)

Cladonia squamosa (Scop.) Hoffm. (Vainio 1921, Herre 1946, Gruezo 1979) = *Cladonia squamosa* var. *squamosa* (Scop.) Hoffm.

Cladonia squamosa* var. *squamosa (Scop.) Hoffm. [as *Cladonia squamosa* (Scop.) Hoffm. (Vainio 1921, Herre 1946, Gruezo 1979)]

Cladonia subpityrea Sandst. (Vainio 1921, Herre 1951, Gruezo 1979) [as *Cladonia formosana* Asahina (Herre 1951)]

Cladonia sylvatica (L.) Hoffm. (Vainio 1921, Herre 1946) = *Cladonia arbuscula* subsp. *arbuscula* (Wallr.) Flot.

Cladonia verticillata Hoffm. Schaer (Herre 1946) = *Cladonia cervicornis* subsp. *verticillata* (Hoffm.) Ahti

Cladonia verticillata (Hoffm.) Schaer. var. *verticillata* (Vainio 1921, Gruezo 1979) = *Cladonia cervicornis* subsp. *verticillata* (Hoffm.) Ahti

Cladonia vulcanica Zoll. & Moritzi (Vainio 1921, Gruezo 1979)

Coccocarpia aeruginosa Müll. Arg. (Vainio 1921, Gruezo 1979, Arvidsson 1982)

Coccocarpia ciliata (Bel.) Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia erythroxyli* (Spreng.) Swinscow & Krog

Coccocarpia cronia (Tuck.) Vain. var. *aurantiaca* (Hook. & Tayl.) (Vainio 1921, Gruezo 1979) = *Coccocarpia erythroxyli* (Spreng.) Swinscow & Krog

Coccocarpia cronia (Tuck.) Vain. var. *isidiophylla* (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia palmicola* (Spreng.) Arv. & D.J. Galloway

Coccocarpia cronia (Tuck.) Vain. var. *isidiosa* (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia palmicola* (Spreng.) Arv. & D.J. Galloway (Vainio 1921, Gruezo 1979, Sipman 2013)

Coccocarpia cronia (Tuck.) Vain. var. *laceratula* Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia pellita* (Ach.) Müll. Arg.

Coccocarpia cronia (Tuck.) Vain. var. *microphylla* Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia pellita* (Ach.) Müll. Arg.

Coccocarpia cronia (Tuck.) Vain. var. *primaria* Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia erythroxyli* (Spreng.) Swinscow & Krog

Coccocarpia dissecta Swinscow & Krog (Arvidsson 1982)

Coccocarpia domingensis Vainio (Aptroot & Sipman 1989)

Coccocarpia erythrocardia (Müll. Arg.) L. Arvidss. (Arvidsson 1982)

Coccocarpia erythroxyli (Spreng.) Swinscow & Krog (Vainio 1921, Gruezo 1979, Arvidsson 1982, Sipman et al. 2013, Lucban 2019) [as *Coccocarpia ciliata* (Bel.) Vain. (Vainio 1921, Gruezo 1979), *Coccocarpia cronia* (Tuck.) Vain. var. *aurantiaca* (Hook. & Tayl.) (Vainio 1921, Gruezo 1979), *Coccocarpia cronia* (Tuck.) Vain. var. *primaria* Vain. (Vainio 1921, Gruezo 1979), *Coccocarpia incisa* Pers. (Gruezo 1979), *Coccocarpia pellita* (Ach.) var. *incisa* (Pers.) Müll. Arg. (Gruezo 1979), *Coccocarpia molybdaea* Pers. (Gruezo 1979), *Coccocarpia molybdaea* Pers. (Gruezo 1979)]

Coccocarpia fenicis Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia pellita* (Ach.) Müll. Arg.

Coccocarpia erythrocardia Krempelh. (Arvidsson 1982)

Coccocarpia guimarana (Vain.) Swinsc. & Krog (Vainio 1921, Gruezo 1979)

Coccocarpia incisa Pers. (Gruezo 1979) = *Coccocarpia erythroxyli* (Spreng.) Swinscow & Krog

Coccocarpia molybdaea Pers. (Gruezo 1979) = *Coccocarpia erythroxyli* (Spreng.) Swinscow & Krog

Coccocarpia palmicola (Spreng.) Arv. & D.J. Galloway (Vainio 1921, Gruezo 1979, Arvidsson 1982, Sipman 2013) [as *Coccocarpia cronia* (Tuck.) Vain. var. *isidiosa* (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979), *Coccocarpia cronia* (Tuck.) Vain. var. *isidiophylla* (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979)]

Coccocarpia pellita (Ach.) Müll. Arg. (Gruezo 1979, Arvidsson 1982, Sipman et al. 2013) [as *Coccocarpia pellita* (Ach.) var. *chinchonarum* (Fée) Vain. (Vainio 1921, Gruezo 1979), *Coccocarpia pellita* (Ach.) var. *genuina* Müll. Arg. (Vainio 1921, Gruezo 1979), *Coccocarpia pellita* (Ach.) var. *incisa* (Pers.) Müll. Arg. (Gruezo 1979), *Coccocarpia cronia* (Tuck.) Vain. var. *laceratula* Vain. (Vainio 1921, Gruezo 1979), *Coccocarpia cronia* (Tuck.) Vain. var. *microphylla* Vain. (Vainio 1921, Gruezo 1979), *Coccocarpia fenicis* Vain. (Vainio 1921, Gruezo 1979)]

Coccocarpia pellita (Ach.) var. *chinchonarum* (Fée) Vain. (Vainio 1921, Gruezo 1979) = *Coccocarpia pellita* (Ach.) Müll. Arg.

Coccocarpia pellita (Ach.) var. *genuina* Müll. Arg. (Vainio 1921, Gruezo 1979) = *Coccocarpia pellita* (Ach.) Müll. Arg.

Coccocarpia pellita (Ach.) var. *incisa* (Pers.) Müll. Arg. (Gruezo 1979) = *Coccocarpia pellita* (Ach.) Müll. Arg.

Coccocarpia pellita (Ach.) var. *smaragdina* (Pers.) Müll.-Arg. (Vainio 1921, Gruezo 1979) = *Coccocarpia smaragdina* Pers. Emend. Arv.

Coccocarpia rottleri (Ach.) L. Arvidss. (Arvidsson 1982)

Coccocarpia smaragdina Pers. Emend. Arv. [as *Coccocarpia pellita* (Ach.) var. *smaragdina* (Pers.) Müll. Arg. (Vainio 1921, Gruezo 1979)]

Coccotrema cucurbitula (Mont.) Vain. (Vainio 1913, Gruezo 1979)

▲ ***Coenogonium epiphyllum*** Vain. (Vainio 1921, Gruezo 1979)

Coenogonium fallaciosum (Müll. Arg.) Kalb & Lücking (Aptroot & Sipman 1989) [as *Dimerella falaciosa* (Müll. Arg.) Vězda]

Coenogonium geralense (Henn.) Lücking [as *Gyalecta marginalis* Vain. (Vainio 1921)]

Coenogonium hypophyllum (Vězda) Kalb & Lücking (Aptroot & Sipman 1989) [as *Dimerella hypophylla* Vězda]

Coenogonium interplexum Nyl. (Vainio 1921, Gruezo 1979)

Coenogonium leprieurii var. ***lamelliferum*** Vain. (Vainio 1921, Gruezo 1979)

Coenogonium linkii Ehrenb (Aptroot & Sipman 1989, Domingo et al. 2015)

Coenogonium luteum (Dicks.) Kalb & Lücking [as *Gyalecta lutea* (Dicks.) Tuck. (Vainio 1921, Gruezo 1979), *Microphiale lutea* (Dicks.) A. Zahlbr. (Herre 1946)]

Coenogonium pineti (Ach.) Lücking & Lumbsch [as *Gyalecta diluta* (Pers.) Vain. (Vainio 1921, Herre 1946, Gruezo 1979), *Microphiale diluta* (Pers.) A. Zahlbr. (Herre 1946)]

Coenogonium stramineum (Aptroot & Seaward) Lücking, Aptroot & Sipman (Bawingan et al. 2014)

Coenogonium subluteum (Rehm) Kalb & Lücking [as *Dimerella epiphylla* (Müll.Arg.) Malme (Vainio 1921, Gruezo 1979), *Gyalecta epiphylla* (Müll.Arg.) Vain. (Vainio 1921, Gruezo 1979), *Gyalecta epiphylloides* Vain. (Vainio 1921), *Gyalecta lacerata* Vain. (Vainio 1921)]

Coenogonium subvirescens Nyl. (Vainio 1921, Gruezo 1979)

Coenogonium tenuissimum Krmph. (Vainio 1921, Gruezo 1979)

Collema actinoptychum Nyl. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)

Collema byrsinum Ach. (Gruezo 1979) = *Physma byrsinum* (Ach.) Müll. Arg.

Collema coilocarpum (Müll. Arg.) Zahlbr. (Gruezo 1979)

Collema flaccidum (Ach.) Ach. [as *Collema rupestre* (L.) Vain. (Vainio 1921, Gruezo 1979, Paguirigan et al. 2019)]

Collema furfuraceum (Arn.) DR. (Gruezo 1979) [as *Collema nigrescens* f. *furfuraceum* Schaer. (Herre 1951, Gruezo 1979), *Collema furfuraceum* (Arn.) DR. var. *luzonense* (Räsänen) Degel. (Gruezo 1979)]

Collema furfuraceum (Arn.) DR. var. *luzonense* (Räsänen) Degel. (Gruezo 1979) = *Collema furfuraceum* (Arn.) DR. (Gruezo 1979)

Collema glebulentum (Nyl. ex Cromb.) Degel.

Collema japonicum (Müll. Arg.) Hue (Gruezo 1979)

Collema leptaleum var. ***biliosum*** (Mont.) Degel. (Sipman et al. 2013)

Collema luridum Mont. (Herre 1946, Gruezo 1979) = *Pannaria lurida* (Mont.) Nyl.

Collema nigrescens (Huds.) Lam. & D.C. (Herre 1951, Gruezo 1979)

Collema nigrescens f. *furfuraceum* Schaer. (Herre 1951, Gruezo 1979) = *Collema furfuraceum* (Arn.) DR. (Gruezo 1979)

Collema pulcellum var. ***subnigrescens*** (Müll. Arg.) Degel. (Vainio 1921, Gruezo 1979)

Collema rugosum Kremp. (Gruezo 1979, Sipman et al. 2013, Paguirigan et al. 2019)

Collema rupestre (L.) Vain. (Vainio 1921, Gruezo 1979) = *Collema flaccidum* (Ach.) Ach.

Collema texanum Tuck. (Paguirigan et al. 2019)

Coniocarpon cinnabarinum DC. [as *Arthonia cinnabarina* (DC.) Wallr. Sipman (2013), *Arthonia gregaria* (Weigel) Körb. (Gruezo 1979), *Arthonia gregaria* (Weigel) Körb. var. *adspersa* (Mont.) Vain. (Vainio 1921, Gruezo 1979), *Arthonia gregaria* (Weig.) Körb. var. *subsolitaria* Vain. (Vainio 1921, Gruezo 1979), *Arthonia tumidula* (Ach.) Ach. (Vainio 1921, Gruezo 1979)]

Constrictolumina cinchonae (Ach.) Lücking, M.P. Nelsen & Aptroot [as *Didymella cinchonae* (Ach.) Vain. (Vainio 1923)]

Constrictolumina majuscula (Nyl.) Lücking, M.P. Nelsen & Aptroot (Aptroot & Lücking 2016)

Cora glabrata (Spreng.) Fr. [as *Cora pavonia* (Sw.) Fr. (Gruezo 1979)] = *Cora palaeotropica* Weerakoon, Aptroot & Lücking

Cora pavonia (Weber & D. Mohr) Fr. (Gruezo 1979) = *Cora palaeotropica* Weerakoon, Aptroot & Lücking

Cora palaeotropica Weerakoon, Aptroot & Lücking [as *Cora glabrata* (Spreng.) Fr. [as *Cora pavonia* (Sw.) Fr. (Gruezo 1979), *Cora pavonia* (Weber & D. Mohr) Fr. (Gruezo 1979)]

Cratiria dissimilis (Nyl.) Marbach [as *Buellia isidiata* Herre (Herre 1951), *Buellia philippina* Räsänen (Herre 1951, Gruezo 1979)]

Cratiria lauricassiae (Fée) Marbach [as *Buellia lauricassiae* (Fée) Müll. Arg. (Vainio 1913, Gruezo 1979)]

Cresponea proximata (Nyl.) Egea & Torrente (Sipman et al. 2013)

Crocodia aurata (Ach.) Link [as *Pseudocyphellaria aurata* (Ach.) Vain. (Vainio 1913, Herre 1946, Gruezo 1979)]

Crocynia biformis Vain. (Vainio 1921, Gruezo 1979)

▲ ***Crocynia feei*** Vain. (Vainio 1921, Gruezo 1979)

▲ ***Crocynia feei*** Vain. var. ***epiphaea*** Vain. (Vainio 1921, Gruezo 1979)

Crocynia membranacea (Dicks.) Zahlbr. (Santos et al. 1964) = *Lepraria membranacea* (Dicks.) Vain.

▲ ***Crustospathula macrocarpa*** Aptroot & Schumm (Aptroot & Schumm 2009)

Cryptolechia subincolorella (Nyl.) D. Hawksw. & Dibben (Sipman et al. 2013)

Cryptothecia striata G. Thor (Lucban & Paguirigan 2019)

Crypthonia mycelioides (Vain.) Frisch & G. Thor [as *Chiodecton mycelioides* Vain. (Vainio 1921, Gruezo 1979)]

Crypthonia polillensis (Vain.) Frisch & G. Thor [as *Chiodecton polillense* Vain. (Vainio 1921, Gruezo 1979)]

Cryptothecia candida (Krmph.) R. Sant. (Gruezo 1979)

Cyclographa interposita Vain. (Vainio 1921, Gruezo 1979) = *Catarraphia dictyoplaca* (Mont. & Bosch) A. Massal.

Cyclographina pervarians (Nyl.) D.D. Awasthi & M. Joshi [as *Helminthocarpon pervarians* (Nyl.) Vain. (Vainio 1921), *Helminthocarpon pervarians* var. *taylori* Herre (Gruezo 1979)]

Cyphellostereum phyllogenum (Müll. Arg.) Lücking, Dal Frono & Lawrey [as *Rhipidonema phyllogenum* (Müll. Arg.) Vain. (Vainio 1923)]

Dermatocarpon miniatum var. *miniatum* (L.) W. Mann (Paguirigan et al. 2019)
Dermatocarpon moulinsii (Mont.) Zahlbr (Paguirigan et al. 2019)
Dermatocarpon rivulorum (Arnold) Dalla Torre & Sarnth. (Paguirigan et al. 2019)
Dibaeis arcuata (Stirt.) Kalb & Gierl [as *Baeomyces fungoides* (Sw.) Ach. (Vainio 1921, Gruezo 1979), *Baeomyces ramalinellus* Nyl. (Gruezo 1979)]
Dendroscocaulon dendroides (Nyl.) R. Sant. (Vainio 1921, Gruezo 1979) = *Sticta dendroides* (Nyl.) Moncada, Lücking & de Lange
Dichosporidium boschianum (Mont.) G. Thor [as *Chiodecton hamatum* var. *dispersum* Vain. (Vainio 1921, Gruezo 1979)]
Dictyonema guadalupense (Rabenh. ex Sacc.) Zahlbr. (Vainio 1923, Gruezo 1979)
Dictyonema irpicinum Mont. [as *Rhipidonema irpicinum* (Mont.) Sacc. (Vainio 1923, Gruezo 1979)]
Dictyonema scabridum (Vain.) Lücking [as *Rhipidonema irpicinum* var. *scabridum* Vain. (Vainio 1923)]
Dictyonema sericeum (Sw.) Berk. (Vainio 1923) = *Dictyonema thelophora* (Spreng.) Zahlbr.
Dictyonema thelophora (Spreng.) Zahlbr. [as *Dictyonema sericeum* (Sw.) Berk. (Vainio 1923)]
Didymella cinchonae (Ach.) Vain. (Vainio 1923) = *Constrictolumina cinchonae* (Ach.) Lücking, M.P. Nelsen & Aptroot
Didymosphaeria coccifera Vain. (Vainio 1921) = *Bogoriella miculiformis* (Nyl. ex Müll. Arg.) Aptroot & Lücking
Didymosphaeria coccifera var. *cinereorubricosa* Vain. (Vainio 1921) = *Bogoriella subfallens* (Müll. Arg.) Aptroot & Lücking
Didymosphaeria palaquii Vain. (Vainio 1921) = *Bogoriella thelena* (Ach.) Aptroot & Lücking
Didymosphaeria philippina Vain. (Vainio 1921) = *Bogoriella hemisphaerica* (Müll. Arg.) Aptroot & Lücking
Dimerella epiphylla (Müll.Arg.) Malme (Vainio 1921, Gruezo 1979) = *Coenogonium subluteum* (Rehm) Kalb & Lücking
Dimidiographa graphidiza (Nyl.) Ertz & Tehler [as *Opegrapha graphidiza* Nyl. (Vainio 1921, Gruezo 1979)]
Diorygma erythrellum (Mont. & Bosch) Kalb, Staiger & Elix (Sipman et al. 2013)
Diorygma hieroglyphicum (Pers.) Staiger & Kalb (Sipman et al. 2013, Tabaquero et al. 2013, Bawingan et al. 2014, Fajardo & Bawingan 2019)
Diorygma hololeucum (Mont. & Bosch) Kalb Staiger & Elix [as *Graphina hololeuca* (Mont.) Müll.Arg. (Gruezo 1979)]
Diorygma junghuhnii (Mont. & Bosch) Kalb Staiger & Elix (Vainio 1921, Gruezo 1979, Tabaquero et al. 2013, Sipman et al. 2013) [as *Graphis mendax* Nyl. (Vainio 1921, Gruezo 1979)]
Diorygma macgregorii (Vain.) Kalb, Staiger & Elix [as *Helminthocarpon pervarians* (Nyl.) Vain. var. *macgregorii* Vain. (Vainio 1921, Gruezo 1979)]
Diploicia canescens subsp. *canescens* (Dicks.) A. Massal. (Lucban & Paguirigan 2019)
Diploschistes cinereocaesius (Sw.) Vain. (Vainio 1921, Gruezo 1979)
Dirinaria aegialita (Afzel. ex Ach.) (Sipman et al. 2013) [as *Physcia aegialita* (Ach.) Nyl. (Gruezo 1979)]
Dirinaria applanata (Fée) D.D. Awasthi (Sipman et al. 2013, Bawingan et al. 2014, Lucban & Paguirigan 2019) [as *Physcia applanata* (Fée) Nyl. (Herre 1946), *Parmelia applanata* Fee (Gruezo 1979)]
Dirinaria confluens (Fr.) D.D. Awasthi [as *Physcia confluens* (Fr.) Nyl. (Gruezo 1979)]
Dirinaria papillulifera (Nyl.) D.D. Awasthi (Aptroot & Sipman 1989)
Dirinaria paradoxa (Fée) (Lucban & Paguirigan 2019)
Dirinaria picta (Sw.) Clem & Shear (Vainio 1913, Herre 1946, Gruezo 1979, Lucban & Paguirigan 2019) [as *Physcia picta* (Sw.) Nyl. (Vainio 1913, Herre 1946)]
Dyplolabia afzelii (Ach.) A. Massal. (Fajardo & Bawingan 2019) [as *Graphis afzelii* Ach. (Gruezo 1979)]

Echinoplaca epiphylla Fée (Gruezo 1979)

Echinoplaca diffluens (Müll.Arg.) R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Lecaniella atypica* Vain. (Vainio 1921)]

Echinoplaca leucothrichoides (Vain.) R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Calenia leucothrichoides* Vain. (Vainio 1921)]

Echinoplaca pellicula (Müll. Arg.) R. Sant. (Vainio 1921, Gruezo 1979)

Ectolechia aspidota Vain. (Vainio 1921) = *Bullatina aspidota* (Vain) Vězda & Poelt

Enterographa anguinella (Nyl.) Redgr. (Vainio 1921, Gruezo 1979) = *Nyungwea anguinella* (Nyl.) Aptroot

Enterographa angustissima (Vain.) R. Sant. (Gruezo 1979, Lücking 2008) [as *Chiodecton angustissimum* Vain. (Vainio 1921)]

Enterographa tropica Sparrius (Sparrius 2004)

Eremothecella calamicola Syd. & P. Syd. (Vainio 1921, Gruezo 1979, Sipman et al. 2013, Lücking 2008) [also as *Arthonia calamicola* (Syd. & P. Syd.) R. Sant., *A. corallifera* Vain., *A. mycoporoides* Vain., *A. polillensis* Vain.]

Eremothecella macrocephala (R. Sant.) G. Thor, Sérus., Lücking & Tat. Matsumoto [as *Stirtonia macrocephala* R. Sant. (Gruezo 1979)]

▲ ***Erioderma phaeorhizum*** Vain. (Vainio 1921, Gruezo 1979)

Erioderma solediatum D.J. Galloway & P.M. Jørg (Gruezo 1979)

Erioderma tomentosum Hue (Vainio 1921, Gruezo 1979)

Erythrodictyon malacum (Kremp.) G. Thor [as *Chiodecton endococcineum* Vain. (Vainio 1921)]

Eschatogonia marivelensis (Vain.) Kalb [as *Toninia marivelensis* Vain. (Vainio 1921, Gruezo 1979)]

Eschatogonia prolifera (Mont.) R. Sant. (Sipman et al. 2013)

Eugeniella micrommata (Kremp.) Lücking, Sérus. & Kalb (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Bacidia micrommata* (Kremp.) R. Sant. (Vainio 1921, Gruezo 1979)]

Eumitria baileyi Stirt. = *Usnea baileyi* (Stirt.) Zahlbr. (Vainio 1909)

Eumitria pectinata (Taylor) Articus = *Usnea pectinata* Taylor

Fellhanera bouteillei (Desm.) Vězda (Lücking 2008) [as *Catillaria bouteillei* (Desm.) Zahlbr. (Vainio 1921, Gruezo 1979), *Mollisia copelandi* Rehm (Rehm 1907)]

Fellhanera mastothallina (Vain.) Lücking & Sérus. [as *Bacidia mastothallina* Vain. (Vainio 1921, Gruezo 1979)]

Fellhanera microdiscus (Vain.) Vězda [as *Bilimbia microdiscus* Vain. (Vainio 1921, Gruezo 1979)]

Fellhanera naevia (Vain.) Lücking & M. Cáceres [as *Bacidia naevia* Vain. (Vainio 1921, Gruezo 1979)]

Fellhanera rhabdophylli (Rehm) Vězda. (Lücking 2008) [as *Bacidia rhabdophylli* (Rehm) Zahlbr. (Vainio 1921, Gruezo 1979)]

Fellhanera semecarpi (Vain.) Vězda (Lücking 2008) [as *Catillaria semecarpi* Vain. (Vainio 1921, Gruezo 1979), *Gyalecta semecarpi* Vain. (Vainio 1921)]

Fissurina albocinerea (Vain.) Staiger [as *Graphis albocinerea* Vain. (Vainio 1921, Gruezo 1979)]

Fissurina chrysocarpoides (Vain.) Lücking [as *Graphis chrysocarpoides* Vain. (Vainio 1921, Gruezo 1979)]

Fissurina comparilis (Nyl.) (Fajardo & Bawingan 2019)

Fissurina cypressi (Müll. Arg.) Lendemer

Fissurina dumastii Fée (Sipman et al. 2013, Bawingan et al. 2014)

Fissurina evanida (Vain.) Staiger and Kalb [as *Graphis evanida* Vain. (Vainio 1921, Gruezo 1979)]

Fissurina humilis (Vain.) Staiger (Sipman et al. 2013) [as *Graphis humilis* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)]

Fissurina incrustans Fée (Tabaquero et al. 2013)

▲ ***Fissurina nigrolabiata*** Rivas Plata, Bawingan & Lücking (Lumbsch et al. 2011)

Fissurina nitidescens (Nyl.) Nyl. (Sipman et al. 2013)
Fissurina rufula (Mont.) Staiger [as *Graphis rufula* Mont. (Vainio 1921, Gruezo 1979)]
Fissurina subcontexta (Nyl.) Nyl. (Bawingan et al. 2014)
Fouragea filicina (Mont.) Trevis. [as *Opegrapha filicina* Mont. (Vainio 1921)]
Fouragea puiggarii (Müll. Arg.) Zahlb [as *Opegrapha puiggarii* Müll. Arg. (Gruezo 1979)]
▲ *Gassicurtia vaccinii* (Vain.) Marbach, Elix & Kalb [as *Buellia vaccinii* Vain. (Vainio 1913, Gruezo 1979)]
Gilletiella latemaculans Rehm (Rehm 1914) = *Mazosia phyllosema* (Nyl.) Zahlbr.
Glyphis cicatricosa (Ach.) Vain. (Tabaquero et al. 2013) [as *Graphis cicatricosa* (Ach.) Vain. (Gruezo 1979, Tabaquero et al. 2013)]
Glyphis scyphulifera (Ach.) Staiger [as *Gyrostomum scyphuliferum* (Ach.) Nyl. (Vainio 1921, Gruezo 1979, Sipman et al. 2013, Fajardo & Bawingan 2019)]
Glyphis heteroclita var. *orbicularis* Mont. (Gruezo 1979) = *Sarcographa heteroclita* (Mont.) Zahlbr.
Granulopyrenis hymnothora (Ach.) Aptroot [as *Verrucaria hymnothora* Ach. (Gruezo 1979)]
Graphidastra multiformis (Mont. & Bosch) G. Thor [as *Chiodecton piperis* var. *manilense* Vain. (Vainio 1921, Gruezo 1979)]
Graphina acharii (Fée) Müll. Arg. (Herre 1946) = *Allographa acharii* (Fée) Lücking & Kalb
Graphina babingtonii (Mont.) A. Zahlbr. (Herre 1946)
Graphina cladophora (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) [*Graphis cladophora* Vain. (Vainio 1921)]
Graphina copelandii (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis coopelandii* Vain. (Vainio 1921)
Graphina diorygmatoides (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis diorygmatoides* Vain. (Vainio 1921)
Graphina hololeuca (Mont.) Müll. Arg. (Gruezo 1979) = *Diorygma hololeucum* (Mont. & Bosch) Kalb Staiger & Elix
Graphina indita (Vain.) Zahlbr. var. *pularensis* Vain. (Vainio 1921, Gruezo 1979)
Graphina philippina (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis philippina* Vain. (Vainio 1921)
Graphis afzelii Ach. (Gruezo 1979) = *Dyplolabia afzelii* (Ach.) A. Massal.
▲ *Graphis albidolivens* (Vainio 1921)
Graphis albocinerea Vain. (Vainio 1921, Gruezo 1979) = *Fissurina albocinerea* (Vain.) Staiger
Graphis alboglauca Vain. (Vainio 1921, Gruezo 1979) = *Hemithecium alboglauca* (Vain.) A.W. Archer
▲ *Graphis analoga* Nyl. (Bawingan et al. 2014, Fajardo & Bawingan 2019)
▲ *Graphis analoga* var. *consimilis* Vain. (Vainio 1921, Gruezo 1979)
▲ **Graphis analoga* var. *manilensis* Vain. (Vainio 1921, Gruezo 1979)
Graphis angustata Eschw. [as *Graphis subangustata* Vain. (Vainio 1921, Gruezo 1979)]
Graphis antillarum var. *manilensis* Vain. (Vainio 1921, Gruezo 1979) = *Graphis renschiana* (Müll. Arg.) Stizenb.
▲ *Graphis arecae* Vain. (Vainio 1921, Gruezo 1979)
▲ *Graphis articulata* Vain. (Vainio 1921, Gruezo 1979)
▲ *Graphis asterella* Vain. (Vainio 1921)
▲ *Graphis astroidea* Vain. (Vainio 1921, Gruezo 1979)
▲ *Graphis bakeri* Vain. (Vainio 1921, Gruezo 1979)
Graphis batanensis Vain. (Vainio 1921, Gruezo 1979) = *Graphis dendrogramma* Nyl.
▲ *Graphis benguetensis* Vain. (Vainio 1921, Gruezo 1979)
Graphis bonplandii var. *bilirana* Vain. (Vainio 1921, Gruezo 1979)
Graphis brahmanensis Aptroot (Tabaquero et al. 2013)
Graphis bulacana Vain. (Vainio 1921, Gruezo 1979) = *Graphis glaucescens* Fée
Graphis caribica Lücking (Lucban & Paguirigan 2019)

Graphis caesiella Vain. (Tabaquero et al. 2013)
▲ *Graphis caesiolabiata* Vain. (Vainio 1921, Gruezo 1979)
Graphis canlaonensis Vain. (Vainio 1921, Gruezo 1979) = *Hemithecium canlaonense* (Vain.) W. Archer
Graphis ceratoides Vain. (Vainio 1921, Gruezo 1979) = *Phaeographis ceratoides* (Vain.) Zahlbr.
Graphis chlorocarpoides Nyl. (Vainio 1921) = *Pallidogramme chlorocarpoides* (Nyl.) Staiger, Kalb and Lücking
Graphis chlorotica A. Massal. [as *Graphis duplicata* var. *australasiatica* Vain. (Vainio 1921, Gruezo 1979)]
Graphis chrysenteron Mont. (Gruezo 1979) = *Pallidogramme chrysenteron* (Mont.) Staiger, Kalb and Lücking
Graphis chrysocarpoides Vain. (Gruezo 1979, Vainio 1921) = *Fissurina chrysocarpoides* (Vain.) Lücking
Graphis cicatricosa (Ach.) Vain. (Gruezo 1979, Tabaquero et al. 2013) = *Glyphis cicatricosa* Ach.
Graphis cicatricosa var. *confluens* (Zenk.) Zahlbr. (Gruezo 1979, Vainio 1921)] = *Glyphis cicatricosa* Ach.
Graphis cicatricosa (Ach.) Vain. var. *simplicior* Vain. (Vainio 1921, Gruezo 1979) = *Glyphis cicatricosa* Ach.
Graphis cincta (Pers.) Aptroot (Bawingan et al. 2014, Fajardo & Bawingan 2019) [as *Graphis tenellula* Vain. (Vainio 1921, Gruezo 1979), *Graphis guimarana* Vain. (Vainio 1921, Gruezo 1979), *Graphis tenella* var. *jatrophae* Vain. (Vainio 1921, Gruezo 1979), *Graphis tenellula* Vain. (Vainio 1921, Gruezo 1979)]
▲ *Graphis cinereoalba* Vain. (Vainio 1921, Gruezo 1979)
Graphis cladophora Vain. (Vainio 1921) = *Graphina cladophora* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)
▲ *Graphis commaculans* Vain. (Vainio 1921, Gruezo 1979)
Graphis consimilis Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013, Bawingan et al. 2014, Fajardo & Bawingan 2019)
Graphis contexta (Pers.) Nyl. (Vainio 1921, Gruezo 1979) = *Phaeographina contexta* (Pers.) Müll. Arg.
▲ *Graphis copelandii* Vain. (Vainio 1921) [as *Graphina copelandii* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Graphis crassilabra Müll. Arg. (Sipman et al. 2013)
Graphis cumingii Vain. (Vainio 1921) [as *Phaeographina cumingii* (Vain.) Redgr. (Vainio 1921, Gruezo 1979)]
Graphis dendrogramma Nyl. (Sipman et al. 2013, Tabaquero et al. 2013, Fajardo & Bawingan 2019) [as *Graphis batanensis* Vain. (Vainio 1921, Gruezo 1979), *Graphis subvirginea* var. *rhizophorearum* Vain. (Vainio 1921, Gruezo 1979), *Graphis subvirginea* var. *streblicola* Vain. (Vainio 1921, Gruezo 1979)]
Graphis dendroides (Leight.) Vain. (Vainio 1921) = *Phaeographis dendroides* (Leight.) Müll. Arg.
▲ *Graphis desperens* Vain. (Vainio 1921, Gruezo 1979)
Graphis diaphoroides Müll. Arg. (Vainio 1921, Gruezo 1979) = *Graphis librata* C. Knight
▲ *Graphis difformis* Vain. (Vainio 1921, Gruezo 1979)
Graphis dilatata Vain. (Vainio 1921) = *Leiorreuma dilatatum* (Vain.) Staiger
Graphis diorygmatoides Vain. (Vainio 1921) [as *Graphina diorygmatoides* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
▲ **Graphis diorygmatoides* Vain. fo. *hypocrea* Vain. (Gruezo 1979)
▲ *Graphis diplocheila* Vain. (Vainio 1921, Gruezo 1979)
Graphis disserpens Nyl. (Lucban & Paguirigan 2019)
Graphis disserpens Nyl. var. *elongata* Vain. (Vainio 1921, Gruezo 1979)
Graphis distincta Makhija & Adaw (Bawingan et al. 2014, Fajardo & Bawingan 2019)
▲ *Graphis dupaxana* Vain. (Vainio 1921, Tabaquero et al. 2013)

Graphis duplicata Ach. (Tabaquero et al. 2013) = *Graphis leptoclada* Müll. Arg.
Graphis duplicata var. *australasiatica* Vain. (Vainio 1921, Gruezo 1979) = *Graphis chlorotica* A. Massal.

▲ *Graphis duplicata* var. *negrosina* Vain. (Vainio 1921, Gruezo 1979)
Graphis eburnea Adaw. & Makhija (Tabaquero et al. 2013)
Graphis elegans (Borrer ex Sm.) Ach. (Lucban & Paguirigan 2019)
▲ *Graphis elmeri* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Graphis elongata Zenker. (Gruezo 1979) = *Allographa elongata* (Zenker) Lücking & Kalb
▲ *Graphis eugeniae* Vain. (Vainio 1921, Gruezo 1979)
Graphis evanida Vain. (Vainio 1921, Gruezo 1979) = *Fissurina evanida* (Vain.) Staiger and Kalb
Graphis exilior Vain. (Vainio 1921, Gruezo 1979) = *Phaeographina exilior* (Vain.) Zahlbr.
▲ *Graphis exsertissima* Vain. (Vainio 1921) [as *Phaeographina exsertissima* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Graphis feei (Meissn.) Vain. (Vainio 1921, Gruezo 1979)
Graphis fenicis Vain. (Vainio 1921, Gruezo 1979) = *Sarcographa fenicis* (Vain.) Zahlbr.
▲ *Graphis ferruginea* Vain. (Vainio 1921, Gruezo 1979)
▲ *Graphis ficicola* Vain. (Vainio 1921, Gruezo 1979)
Graphis flavens Müll. Arg. (Tabaquero et al. 2013)
Graphis fruticicola Vain. (Vainio 1921, Gruezo 1979) = *Graphis vestitoides* (Fink) Staiger
▲ *Graphis fulgurans* Vain. (Vainio 1921, Gruezo 1979)
Graphis furcata Fée (Vainio 1921, Gruezo 1979, Sipman et al. 2013, Bawingan et al. 2014, Fajardo & Bawingan 2019)
Graphis glaucescens Fée (Vainio 1921, Sipman et al. 2013, Fajardo & Bawingan 2019) [as *Graphis bulacana* Vain. (Vainio 1921, Gruezo 1979)]
Graphis glauconigra Vain. (Vainio 1921, Gruezo 1979, Tabaquero et al. 2013)
Graphis guimarana Vain. (Vainio 1921, Gruezo 1979) = *Graphis cincta* (Pers.) Aptroot
Graphis heteroclita (Mont.) Vain. (Vainio 1921) = *Sarcographa heteroclita* (Mont.) Zahlbr.
Graphis hiascens (Fée) Nyl. var. *clausior* Vain. (Vainio 1921), also as *Graphina hiascens* (Fée) Müll. Arg. var. *clausior* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis streblocarpa* (Bél.) Nyl.
Graphis hossei Vain. [as *Graphis nematodiza* Vain. (Gruezo 1979, Vainio 1921)]
Graphis humilis Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) = *Fissurina humilis* (Vain.) Staiger
Graphis hydrina Vain. (Vainio 1921, Gruezo 1979) = *Phaeographis hydrina* (Vain.) Redinger (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Graphis immersella Müll. Arg. (Tabaquero et al. 2013)
Graphis immersicans A.W. Archer (Fajardo & Bawingan 2019) [as *Graphis leptocarpa* var. *invita* Vain. (Gruezo 1979)]
▲ *Graphis impressopunctata* Vain. (Vainio 1921)
Graphis imshaugii M. Wirth & Hale (Fajardo & Bawingan 2019)
Graphis ingarum (Vain.) Lücking (Tabaquero et al. 2013)
* *Graphis indita* var. *marivelensis* Vain. (Vainio 1921, Gruezo 1979)
* *Graphis indita* var. *pularenensis* Vain. (Vainio 1921)
Graphis insulana (Müll. Arg.) Lücking (Sipman et al. 2013) [as *Graphis orientalis* Vain. (Vainio 1921, Herre 1931)]
Graphis intricata Eschw. (Lucban & Paguirigan 2019)
▲ *Graphis irosina* Vain. (Vainio 1921, Gruezo 1979)
▲ *Graphis isidiosa* Vain. (Vainio 1921) [as *Phaeographina isidiosa* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Graphis japonica (Müll. Arg.) A.W. Archer & Lücking (Tabaquero et al. 2013)
▲ *Graphis labuana* (Nyl.) Vain. (Vainio 1921)
Graphis labyrinthica (Ach.) Vain. (Vainio 1921) = *Sarcographa labyrinthica* (Ach.) Müll. Arg

Graphis labyrinthica var. *quatuorseptata* Vain. (Vainio 1921) = *Sarcographa labyrinthica* (Ach.) Müll. Arg.

▲ *Graphis leptocarpa* Fée. (Vainio 1921, Fajardo & Bawingan 2019)

Graphis leptocarpa var. *invita* Vain. (Gruezo 1979) = *Graphis immersicans* A.W. Archer

Graphis leptoclada Müll. Arg [as *Graphis duplicata* Ach. (Tabaquero et al. 2013, Lucban & Paguirigan 2019)]

Graphis leptogramma Nyl. (Sipman et al. 2013)

Graphis librata Knight. (Tabaquero et al. 2013) [as *Graphis diaphoroides* Müll. Arg. (Vainio 1921, Gruezo 1979)]

Graphis lineola Ach. (Vainio 1921, Gruezo 1979, Bawingan et al. 2014, Fajardo & Bawingan 2019)

Graphis litoralis Lücking, Sipman & Chaves (Tabaquero et al. 2013)

Graphis longula Kremp. [as *Graphis supernata* Vain. (Vainio 1921, Gruezo 1979)]

Graphis lumbricina Vain. (Tabaquero et al. 2013) = *Allographa lumbricina* (Vain.) Lücking & Kalb

▲ *Graphis luzonensis* Vain. (Vainio 1921, Gruezo 1979)

▲ *Graphis malacoderma* Vain. (Vainio 1921, Gruezo 1979)

Graphis marginifera Vain. (Vainio 1921, Gruezo 1979) = *Graphis rustica* Kremp.

Graphis mendax Nyl. (Vainio 1921, Gruezo 1979) = *Diorygma junghunii* (Mont. & Bosch) Kalb, Staiger & Elix

Graphis mitis Vain. (Vainio 1921) = *Phaeographis mitis* (Vain.) Redgr. (Vainio 1921, Gruezo 1979, Sipman 2010)

Graphis mindanaoensis Vain. (Vainio 1921, Gruezo 1979) = *Graphis xanthospora* Müll. Arg.

Graphis modesta Zahlbr. (Fajardo & Bawingan 2019)

Graphis montagnei subsp. *deducta* (Nyl.) Vain. (Vainio 1921)

▲ *Graphis nanodes* Vain. (Sipman 2013, Vainio 1921, Fajardo & Bawingan 2019)

Graphis nematodiza Vain. (Gruezo 1979, Vainio 1921) = *Graphis hossei* Vain.

▲ *Graphis negrosina* (Vain.) Lücking [as *Opegrapha negrosina* Vain. (Vainio 1921, Gruezo 1979)]

Graphis nilgiriensis Adaw. & Makhija (Fajardo & Bawingan 2019)

Graphis orientalis Vain. (Vainio 1921, Herre 1931) = *Graphis insulana* (Müll. Arg.) Lücking & Sipman

▲ *Graphis pachygraphiza* Vain. (Vainio 1921, Gruezo 1979)

Graphis parilis Kremp. (Vainio 1921, Gruezo 1979)

▲ *Graphis pauaiensis* Vain. (Vainio 1921, Gruezo 1979)

▲ *Graphis peralbata* Vain. (Vainio 1921, Gruezo 1979)

▲ * *Graphis peralbata* Vain. *bilirana* Vain. (Gruezo 1979, Vainio 1921)

▲ *Graphis perrigida* Vain. (Vainio 1921) [as *Phaeographina perrigida* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]

Graphis persicina Meyen & Flot (Vainio 1921, Herre 1946, Gruezo 1979, Sipman et al. 2013, Fajardo & Bawingan 2019)

Graphis phaeospora Vain. (Lucban & Paguirigan 2019)

▲ *Graphis philippina* Vain. (Vainio 1921) [as *Graphina philippina* (Vain.) Zahlbr (Vainio 1921, Gruezo 1979)]

Graphis phlyctidea Vain. (Vainio 1921, Gruezo 1979) = *Nitidochapsa phlyctidea* (Vain.) Lücking & Lumbsch

Graphis pinicola Zahlbr. (Tabaquero et al. 2013, Fajardo & Bawingan 2019)

▲ *Graphis polillensis* Vain. (Vainio 1921, Gruezo 1979)

Graphis polystriata Makhija & Dube (Tabaquero et al. 2013)

Graphis pongamiae Vain. (Vainio 1921, Gruezo 1979) = *Phaeographis pongamiae* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)

Graphis proserpens Vain. (Tabaquero et al. 2013)

Graphis quassiaecola (Fée) Vain. (Vainio 1921) = *Thecaria quassiicola* Fée
Graphis ramosoconnexa Vain. (Vainio 1921) = *Sarcographa ramosoconnexa* (Vain.) Redinger (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Graphis renschiana (Müll. Arg.) Stizenb. [as *Graphis antillarum* var. *manilensis* Vain. (Vainio 1921, Gruezo 1979)]
▲ ***Graphis revelatula*** Vain. (Vainio 1921, Gruezo 1979)
Graphis rimulosa (Mont.) Trevis (Tabaquero et al. 2013)
Graphis rufula Mont. (Vainio 1921, Gruezo 1979) = *Fissurina rufula* (Mont.) Staiger
▲ ***Graphis rufula*** Mont. var. ***comirana*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Graphis rufula*** fo. ***tegocarpa*** Vain. (Vainio 1921, Gruezo 1979)
Graphis rustica Kremp. (Tabaquero et al. 2013) [as *Allographa rustica* (Kremp.) Lücking & Kalb, *Graphis marginifera* Vain. (Vainio 1921, Gruezo 1979), *Graphis tonglonensis* Vain. (Vainio 1921, Gruezo 1979)]
▲ ***Graphis samalensis*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Graphis schizogramma*** Vain. (Vainio 1921, Gruezo 1979)
Graphis scripta (L.) Ach. [as *Graphis scripta* (L.) Ach. fo. *pulverulenta* (Pers.) Ach. (Gruezo 1979, Lucban & Paguirigan 2019)]
Graphis scripta (L.) Ach. fo. *pulverulenta* (Pers.) Ach. (Gruezo 1979) = *Graphis scripta* (L.) Ach.
Graphis schiffneri Zahlbr.
Graphis semiglyphis Vain. (Vainio 1921) = *Phaeographis semiglyphis* (Vain.) Redgr.
Graphis sericea (Eschw.) Vain. (Vainio 1921, Gruezo 1979) = *Leiorreuma sericeum* (Eschw.) Staiger
▲ ***Graphis sorsogona*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Graphis stenotera*** Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
▲ ***Graphis stramineoglaucia*** Vain. (Vainio 1921, Gruezo 1979)
Graphis streblocarpa (Bél.) Nyl. [as *Graphis hiascens* (Fée) Nyl. var. *clausior* Vain. (Vainio 1921), *Graphina hiascens* (Fée) Müll. Arg. var. *clausior* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Graphis striatula (Ach.) Spreng. (Vainio 1921, Gruezo 1979, Tabaquero et al. 2013) = *Allographa striatula* (Ach.) Lücking & Kalb
Graphis subangustata Vain. (Vainio 1921, Gruezo 1979) = *Graphis angustata* Eschw.
Graphis subcelata A.W. Archer (Tabaquero et al. 2013)
Graphis subdisserpens Nyl. (Tabaquero et al. 2013) = *Allographa subdisserpens* (Nyl.) Lücking & Kalb
▲ ***Graphis subducta*** Vain. (Vainio 1921)
Graphis subimmersa (Fée) A. Massal.
Graphis subserpentina Nyl. (Vainio 1921, Gruezo 1979)
Graphis subvirginea var. *rhizophorearum* Vain. (Vainio 1921, Gruezo 1979) = *Graphis dendrogramma* Nyl.
Graphis subvirginea var. *streblicola* Vain. (Vainio 1921, Gruezo 1979) = *Graphis dendrogramma* Nyl.
Graphis sundarbanensis Jagadeesh Ram & G. P. Sinha (Fajardo & Bawingan 2019)
Graphis supernata Vain. (Vainio 1921, Gruezo 1979) = *Graphis longula* Kremp.
Graphis tenella Ach. (Herre 1946, Tabaquero et al. 2013)
Graphis tenella var. *jatrophae* Vain. (Vainio 1921, Gruezo 1979) = *Graphis cincta* (Pers.) Aptroot
Graphis tenellula Vain. (Vainio 1921, Gruezo 1979) = *Graphis cincta* (Pers.) Aptroot
Graphis tonglonensis Vain. (Vainio 1921, Gruezo 1979) = *Graphis rustica* Kremp.
▲ ***Graphis trabeata*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Graphis urandrae*** Vain. (Vainio 1921, Gruezo 1979)
Graphis verrucosa Vain. (Vainio 1921, Gruezo 1979) = *Sarcographa verrucosa* (Vain.) Zahlbr.
Graphis vestitoides (Fink) Staiger [as *Graphis fruticicola* Vain. (Vainio 1921, Gruezo 1979)]
Graphis vittata Müll. Arg. (Tabaquero et al. 2013)

Graphis xanthospora Müll. Arg. [as *Graphis mindanaoensis* Vain. (Vainio 1921, Gruezo 1979)]
Gyalecta diluta (Pers.) Vain. (Vainio 1921, Herre 1946, Gruezo 1979) = *Coenogonium pineti* (Ach.) Lücking & Lumbsch
Gyalecta epiphylla (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979) = *Coenogonium subluteum* (Rehm) Kalb & Lücking
Gyalecta epiphylloides Vain. (Vainio 1921) = *Coenogonium subluteum* (Rehm) Kalb & Lücking
Gyalecta lacerata Vain. (Vainio 1921) = *Coenogonium subluteum* (Rehm) Kalb & Lücking
Gyalecta lutea (Dicks.) Tuck. (Vainio 1921, Gruezo 1979) = *Coenogonium luteum* (Rehm) Kalb & Lücking
Gyalecta marginalis Vain. (Vainio 1921) = *Coenogonium geralense* (Henn.) Lücking
▲ ***Gyalecta roseoalbida*** Vain. (Vainio 1921, Gruezo 1979)
Gyalecta semecarpi Vain. (Vainio 1921) = *Fellhanera semecarpi* (Vain.) Vězda
Gyalectidium aspidotum (Vain.) R. Sant. (Vainio 1921, Gruezo 1979) = *Bullatina aspidota* (Vain.) Vězda & Poelt
Gyalectidium rotuliforme Müll. Arg. (Gruezo 1979) = *Asterothyrium rotuliforme* (Müll. Arg.) Sérus. & J. R. De Sloover
Gyalidea novae-guineae P. James & Vězda (Aptroot & Sipman 1989)
Gyalideopsis rubescens Vězda (Gruezo 1979)
Gyrostomum scyphuliferum (Ach.) Nyl. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) = *Glyphis scyphulifera* (Ach.) Staiger
Haematomma africanum (Steiner) C.W. Dodge (Staiger & Kalb 1995) [as *Haematomma puniceum* (Ach.) A. Massal (Herre 1946), *Haematomma puniceum* var. *esorediata* Vain. (Vainio 1921, Gruezo 1979), *Haematomma puniceum* subsp. *pacificum* Asah. (Gruezo 1979)]
Haematomma flexuosum Hillm. (Staiger & Kalb 1995)
Haematomma persoonii (Fée) A. Massal. (Staiger & Kalb 1995) [as *Haematomma similis* Bagl. (Aptroot & Sipman 1989)]
Haematomma puniceum (Ach.) A. Massal (Herre 1946) = *Haematomma africanum* (J. Steiner) C.W. Dodge
Haematomma puniceum var. *esorediata* Vain. (Vainio 1921, Gruezo 1979) = *Haematomma africanum* (J. Steiner) C.W. Dodge
Haematomma puniceum subsp. *pacificum* Asah. (Gruezo 1979) = *Haematomma africanum* (J. Steiner) C.W. Dodge
Haematomma similis Bagl. (Aptroot & Sipman 1989) = *Haematomma persoonii* (Fée) A. Massal.
Hafellia dissa (Stirt.) H. Mayrhofer & Sheard (Aptroot & Sipman 1989) [as *Rinodina dissa* (Stirt.) H. Mayrhofer]
Helminthocarpon pervarians (Nyl.) Vain. (Vainio 1921) = *Cyclographina pervarians* (Nyl.) D.D. Awasthi & M. Joshi
Helminthocarpon pervarians (Nyl.) Vain. var. *macgregorii* Vain. (Vainio 1921, Gruezo 1979) = *Diorygma macgregorii* (Vain.) Kalb, Staiger & Elix
Helminthocarpon pervarians var. *taylori* Herre (Gruezo 1979) = *Cyclographina pervarians* (Nyl.) D.D. Awasthi & M. Joshi
Hemithecium alboglauca (Vain.) A.W. Archer [as *Graphis alboglauca* Vain. (Vainio 1921, Gruezo 1979)]
Hemithecium balbisii (Fée) Trevis (Tabaquero et al. 2013)
▲ ***Hemithecium canlaonense*** (Vain.) W. Archer [as *Graphis canlaonensis* Vain. (Vainio 1921, Gruezo 1979)]
Heppia acarosporoides Müll.-Arg. (Vainio 1921, Gruezo 1979) = *Peltula obscurans* (Nyl.) Glyen.
Herpothallon darwiniana Stirt. (Bungartz & Elix sp.nov.) (Lucban & Paguirigan 2019)
▲ ***Herpothallon philippinum*** (Vain.) Aptroot & Lücking (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Chiodecton philippinum* Vain. (Vainio 1921, Gruezo 1979)]
Heterodermia albicans (Pers.) Swinscow & Krog [as *Physcia albicans* (Pers.) J.W. Thomson (Santos et al. 1964, Gruezo 1979)]

Heterodermia comosa (Eschw.) Follmann & Redón [as *Anaptychia comosa* (Eschw.) A. Massal (Herre 1951)]

Heterodermia dendritica (Pers.) Poelt (Gruezo 1979) = *Polyblastidium dendriticum* (Pers.) Kalb

Heterodermia dactyliza (Nyl.) Swinscow & Krog (Aptroot & Sipman 1989)

Heterodermia diademata (Taylor) D.D. Awasthi [as *Anaptychia diademata* fo. *condensata* (Kurok.) Kurok. (Vainio 1913, Gruezo 1979), *Anaptychia diademata* (Tayl.) Kurok. fo. *diademata* (Vainio 1913, Gruezo 1979)]

Heterodermia dendritica var. *propagulifera* (Vain.) (Vainio 1913, Poelt Gruezo 1979) = *Heterodermia japonica* (M. Sato) Swinscow & Krog

Heterodermia flabellata (Fée) D.D. Awasthi [as *Anaptychia flabellata* (Fée) Mass. var. *flabellata* (Vainio 1913, Gruezo 1979)]

Heterodermia flabellata var. *rottboellii* [as *Anaptychia flabellata* var. *rottboellii* (Vain.) Kurok (Gruezo 1979),

Heterodermia galactophylla (Tuck.) W. Culb. (Aptroot & Sipman 1989)

Heterodermia hypocaesia (Yasuda ex Räsänen) D.D. Awasthi [as *Anaptychia hypocaesia* Yas. ex. Räsänen (Vainio 1913, Gruezo 1979), *Polyblastidium hypocaesium* (Yasuda ex Räsänen) Kalb

Heterodermia hybocarponica Elix (Lucban & Paguirigan 2019)

Heterodermia hypochraea (Vain.) Swinscow & Krog (Aptroot & Sipman 1989)

Heterodermia hypoleuca (Muhl.) Trev. (Herre 1946, Gruezo 1979) = *Polyblastidium hypoleucum* (Ach.) Kalb

Heterodermia isidiophora (Vain.) D.D. Awasthi [as *Anaptychia isidiophora* (Nyl.) Vain. (Vainio 1913, Gruezo 1979)]

Heterodermia japonica (M. Satô) Swinscow & Krog (Aptroot & Sipman 1989, Sipman et al. 2013) [as *Heterodermia dendritica* var. *propagulifera* (Vain.) (Vainio 1913, Poelt Gruezo 1979), *Anaptychia hypoleuca* var. *sorediifera* (Müll. Arg.) Vain. (Vainio 1913)]

Heterodermia lamelligera (Taylor) Trass [as *Anaptychia lamelligera* (Tayl.) Kurok. (Gruezo 1979), *Anaptychia dendritica* var. *lamelligera* (Tayl.) Vain. (Vainio 1913)]

Heterodermia obscurata (Nyl.) Trev. (Vainio 1913, Gruezo 1979)

Heterodermia pseudospeciosa (Kurok.) W. Culb. (Gruezo 1979)

Anaptychia hypoleuca var. *rottbollii* (Vainio 1913)]

Heterodermia speciosa (Wulfen) Trevis [as *Anaptychia speciosa* (Wulf.) Mass. (Herre 1946)]

Heterodermia leptotheca Syd. (Santesson 1952) = *Strigula maculata* (Cooke & Massee) R. Sant.

Hypogymnia zeylanica (R. Sant.) D.D. Awasthi & Kr.P. Singh (Elix & Schumm 2001)

Hypotrachyna adducta (Nyl.) Hale [as *Parmelia manilensis* Vain. (Vainio 1909, Gruezo 1979)]

Hypotrachyna americana (Meyen & Flot.) Divakar, A. Crespo, Sipman, Elix & Lumbsch [as *Parmelia americana* (Mey & Flot.) Mont (Vainio 1909, Gruezo 1979)]

▲ ***Hypotrachyna baguioensis*** (Hale) Hale (Gruezo 1979)

Hypotrachyna corneola Kurok. & K.H. Moon (Elix & Schumm 2001)

Hypotrachyna costaricensis (Nyl.) Hale (Gruezo 1979) = *Remototrachyna costaricensis* (Nyl.) Divakar, Lumbsch, Ferencová, Prado & A. Crespo

Hypotrachyna dactylifera (Vain.) Hale [as *Parmelia dactylifera* Vain. (Santos et al. 1964)]

Hypotrachyna exsecta (Taylor) Hale (Aptroot & Sipman 1989)

Hypotrachyna imbricatula (Zahlbr.) Hale (Elix & Schumm 2001)

Hypotrachyna orientalis (Hale) Hale (Gruezo 1979)

Hypotrachyna osseoalba (Vain.) Y.S Park & Hale (Aptroot & Sipman 1989)

Hypotrachyna physcioides (Nyl.) Hale (Elix & Schumm 2001)

Hypotrachyna reducens (Nyl.) Hale (Elix & Schumm 2001)

Hypotrachyna sinuosa (Sm.) Hale (Aptroot & Sipman 1989)

Hypotrachyna sorocheila (Vain.) Divakar, A. cresso, Sipman, Elix & Lumbsch [as *Parmelia sorocheila* Vain. (Vainio 1909, Gruezo 1979)]

Hypotrachyna sublaevigata (Nyl. ex Tuck.) Hale [as *Parmelia canescens* Kurok. (Gruezo 1979)]

Hypotrachyna vexans (Zahlbr. ex W.L. Culb. & C.F. Culb.) Divakar, A. Crespo, Sipman, Elix & Lumbsch [as *Parmelia cirrhata* var. *propagulifera* Räsänen (Gruezo 1979)]

Lasioloma arachnoideum (Krmph.) R. Sant. (Vainio 1921, Gruezo 1979)

Lasioloma phycophorum (Vain.) R. Sant. (Vainio 1921, Gruezo 1979) [as *Sporopodium phycophorum* Vain. (Vainio 1921)]

Lasioloma trichophorum (Vain.) R. Sant. (Vainio 1921, Gruezo 1979) [as *Sporopodium trichophorum* Vain. (Vainio 1921)]

Laurera cumingii (Mont.) Zahlbr. (Herre 1946) = *Marcelaria cumingii* (Mont.) Aptroot, Nelsen & Parnmen

Lecaniella atypica Vain. (Vainio 1921) = *Echinoplaca diffluens* (Müll. Arg.) R. Sant.

Lecanora albella (Pers.) Ach. (Lucban & Paguirigan 2019)

Lecanora atra (Huds.) Ach. (Vainio 1913, Gruezo 1979) = *Tephromela atra* var. *atra* (Huds.) Hafellner

Lecanora callopiis Mey. & Flot. (Gruezo 1979)

*****Lecanora campestris* subsp. *campestris* (Schaer.) Hue [as *Lecanora subfusca* (L.) Ach. var. *campestris* Rahb. (Herre 1951, Gruezo 1979)] temperate species unknown from the tropics**

*****Lecanora carpinea* (L.) Vain. (Vainio 1913, Gruezo 1979) temperate species unknown from the tropics**

Lecanora cinereocarnea (Eschw.) Vain. (Vainio 1913, Gruezo 1979)

Lecanora chlarotera Nyl. (Gruezo 1979) [as *Lecanora subfusca* (L.) Ach. var. *chlarona* Ach. (Vainio 1913, Gruezo 1979), *Lecanora subfusca* (L.) Ach. var. *chlarotera* (Nyl.) Vain.]

Lecanora helva Stizenb. (Bawingan et al. 2014)

▲ *Lecanora isidiotyla* Vain. (Vainio 1913, Gruezo 1979)

▲ *Lecanora lividocarnea* Vain. (Vainio 1913, Gruezo 1979)

▲ *Lecanora merrillii* Vain. (Vainio 1913, Gruezo 1979)

Lecanora meyeri Flot. (Gruezo 1979)

Lecanora ramosii Räsänen ex. Sbarb. (Gruezo 1979)

Lecanora subimmersa (Fée) Vain. (Sipman et al. 2013) = *Lecanora subimmersa* subsp. *subimmersa* (Fée) Vain.

Lecanora subimmersa subsp. *subimmersa* (Fée) Vain. [as *Lecanora subimmersa* (Fée) Vain. (Sipman et al. 2013)]

*****Lecanora subfusca* (L.) Ach. (Herre 1946, Santos et al. 1964) name not in use anymore for any species**

Lecanora subfusca (L.) Ach. var. *campestris* Rahb. (Herre 1951, Gruezo 1979) = *Lecanora campestris* subsp. *campestris* (Schaer.) Hue

Lecanora subfusca (L.) Ach. var. *chlarona* Ach. (Vainio 1913, Gruezo 1979) = *Lecanora chlarotera* Nyl.

Lecanora subfusca (L.) Ach. var. *chlarotera* (Nyl.) Vain. (Vainio 1913) = *Lecanora chlarotera* Nyl.

Lecanora subfusa var. *pallidevirens* Mey & Flot. (Gruezo 1979)

Lecanora subfusa var. *subcrenulata* Nyl. (Vainio 1913, Gruezo 1979)

Lecanora subfusa var. *tumescens* Vain. (Vainio 1913, Gruezo 1979)

Lecidea aeolotera Vain. (Vainio 1921, Gruezo 1979) = *Amygdalaria aeolotera* (Vain.) Hertel & Brodo

Lecidea bakeri Vain. (Gruezo 1979) = *Malmidea bakeri* (Vain.) Kalb, Rivas Plata & Lumbsch

▲ *Lecidea bakeri* var. *robinsonii* Vain. (Vainio 1921, Gruezo 1979)

▲ *Lecidea butuana* Vain. (Vainio 1921, Gruezo 1979)

▲ *Lecidea canlaonensis* Vain. (Vainio 1921, Gruezo 1979)

Lecidea canorufescens var. *pallidovariegata* Vain. (Vainio 1921, Gruezo 1979)

Lecidea chrysostigma Vain. (Vainio 1921, Gruezo 1979) = *Malmidea chrysostigma* (Vain.) Kalb, Rivas Plata & Lumbsch

▲ *Lecidea dendrophora* fo. *hypoleuca* Vain. (Vainio 1921, Gruezo 1979)

▲ *Lecidea dendrophora* fo. *hypomelaena* Vain. (Vainio 1921, Gruezo 1979)
Lecidea fenicis Vain. (Vainio 1921, Gruezo 1979) = *Malmidea fenicis* (Vain.) Kalb, Rivas Plata & Lumbsch
 ▲ *Lecidea ficicola* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea fuscolurida* Vain. (Vainio 1921, Gruezo 1979)
Lecidea granifera var. *lecanoroides* Vain. (Vainio 1921, Gruezo 1979) = *Malmidea granifera* (Ach.) Kalb, Rivas Plata & Lumbsch
 ▲ *Lecidea griseocastanea* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea haematomma* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea hypochrysea* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea isidiza* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea lagunensis* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea leucotropoides* var. *irosina* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea leucotropoides* var. *theiophora* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea lividorufa* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea macgregorii* Vain. (Vainio 1921, Gruezo 1979)
Lecidea moseleyi Cromb. (Gruezo 1979)
 ▲ *Lecidea nigroglaucia* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea olivaceolurida* Vain. (Vainio 1921, Gruezo 1979)
Lecidea parvifolia Pers. (Gruezo 1979) = *Phyllospora parvifolia* var. *parvifolia* (Pers.) Müll. Arg.
 ▲ *Lecidea perpusilla* Vain. (Vainio 1921, Gruezo 1979)
Lecidea phaeoglaucia Vain. (Vainio 1921, Gruezo 1979) = *Phyllopsora phaeoglaucia* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
 * *Lecidea phaeoglaucia* Vain. fo. *apothecies paullo obscurioribus testaceo-rufuscentibus* Vain. (Gruezo 1979)
Lecidea piperis (Spreng.) Nyl. (Herre 1946) = *Malmidea piperis* (Spreng.) Kalb, Rivas Plata & Lumbsch
Lecidea polisensis Vain. (Vainio 1921, Gruezo 1979) = *Malmidea polisensis* (Vain.) Kalb, Rivas Plata & Lumbsch
Lecidea polycarpiza Vain. (Vainio 1921, Gruezo 1979) = *Porpidia albocaerulescens* var. *polycarpiza* (Vain.) Rambold & Hertel
 ▲ *Lecidea porphyromelaena* Vain. (Vainio 1921, Gruezo 1979)
Lecidea sorsogona Vain. (Vainio 1921, Gruezo 1979) = *Malmidea sorsogona* (Vain.) Kalb, Rivas Plata & Lumbsch
 ▲ *Lecidea streblicola* Vain. (Vainio 1921, Gruezo 1979)
Lecidea subaurigera Vain. (Vainio 1921, Gruezo 1979) = *Malmidea subaurigera* (Vain.) Kalb, Rivas Plata & Lumbsch
Lecidea subaurigera var. *decolorata* Vain. (Vainio 1921, Gruezo 1979) = *Malmidea subaurigera* (Vain.) Kalb, Rivas Plata & Lumbsch
Lecidea taytayensis Vain. (Vainio 1921, Gruezo 1979) = *Malmidea taytayensis* (Vain.) Kalb, Rivas Plata & Lumbsch
 ▲ *Lecidea thallocheiloides* Vain. (Vainio 1921)
 ▲ *Lecidea turbine* Vain. (Vainio 1921, Gruezo 1979)
 ▲ *Lecidea visayana* Herre (Gruezo 1979)
Leioderma sorediatum D.J. Galloway & P.M. Jørg. (Paguirigan et al. 2019)
Leiorreuma dilatatum (Vain.) Staiger [as *Graphis dilatata* Vain. (Vainio 1921)]
Leiorreuma sericeum (Eschw.) Staiger [as *Graphis sericea* (Eschw.) Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)]
Lepraria arbuscula (Nyl.) Lendemer & B.P. Hodk. [as *Leprocaulon arbuscula* (Nyl.) Nyl. (Vainio 1909, Gruezo 1979)]
Lepraria membranacea (Dicks.) Vain. [as *Crocynia membranacea* (Dicks.) Zahlbr. (Santos et al. 1964)]

Leprocaulon arbuscula (Nyl.) Nyl. (Vainio 1909, Gruezo 1979) = *Lepraria arbuscula* (Nyl.) Lendemer & B.P. Hodk.

Leptodendrisium byssoides (Carring.) Vain. (Vainio 1921, Gruezo 1979) = *Polychidium dendrisium* (Nyl.) Henssen

Lepidocollema brisbanense (C. Knight) P.M. Jørg. [as *Parmeliella brisbanensis* (C. Knight) P.M. Jørg & D.J. Gallow (Sipman et al. 2013)]

Lepidocollema endomiltum (Vain.) P.M. Jørg [as *Pannaria endomilta* Vain. (Vainio 1921, Gruezo 1979)]

Lepidocollema marianum (Fr.) P.M. Jørg. [as *Parmeliella mariana* (Fr.) P.M. Jørg & D.J. Galloway (Sipman et al. 2013), *Pannaria mariana* (E. Fr.) Müll. Arg. (Herre 1946), *Parmelia sandwichiana* Pers. (Gruezo 1979), *Pannaria mariana* (Fr.) Müll. Arg. var. *funnebris* (Krmp.) Vain. (Vainio 1921, Gruezo 1979), *Pannaria leiostroma* Nyl. (Vainio 1921, Gruezo 1979)]

Lepidocollema wainioi (Zahlbr.) P.M. Jørg [as *Pannaria soreliata* Vain. (Vainio 1921, Gruezo 1979)]

Lepra corallina (L.) Hafellner [as *Pertusaria corallina* (L.) Arnold (Domingo et al. 2015)]

Leptogium adpressum Nyl. (Paguirigan et al. 2019)

Leptogium azureum (Sw.) Nyl. (Vainio 1921, Herre 1946, Gruezo 1979) [as *Leptogium tremelloides* (L.f.) S. Gray var. *azureum* (Swartz) Nyl. (Herre 1946)]

Leptogium azureum fo. *subrugosa* Vain. (Vainio 1921, Gruezo 1979)

Leptogium azureum var. *laevius* Vain. (Gruezo 1979)

Leptogium azureum var. *laevior* Vain. (Gruezo 1979)

Leptogium brebissonii Mont. (Paguirigan et al. 2019)

▲ *Leptogium caesium* var. *pichneum* (Ach.) Vain. (Vainio 1921, Gruezo 1979)

Leptogium caesium var. *trachynum* Vain. (Vainio 1921, Gruezo 1979)

Leptogium californicum Tuck. (Paguirigan et al. 2019)

Leptogium cochleatum (Dicks.) P.M. Jørg. & P. James (Sipman et al. 2013)

▲ *Leptogium consimile* Vain. (Vainio 1921, Gruezo 1979)

Leptogium coralloideum (Mey. & Flot.) Vain. (Vainio 1909, Vainio 1921, Gruezo 1979)

Leptogium corticola (Taylor) Tuck. (Paguirigan et al. 2019)

Leptogium cyanescens (Rabenh.) Körb. (Lucban & Paguirigan 2019, Paguirigan et al. 2019)

Leptogium denticulatum Tuck. (Lucban & Paguirigan 2019)

Leptogium diaphanum (Sw.) Mont. (Gruezo 1979)

Leptogium fallax Müll. Arg. (Vainio 1921, Gruezo 1979)

▲ *Leptogium granulans* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)

Leptogium javanicum (Mont. & Bosch.) Mont. (Vainio 1921, Gruezo 1979)

Leptogium javanicum var. *microlobum* Vain. (Vainio 1921, Gruezo 1979)

Leptogium javanicum var. *obscuratum* Vain. (Vainio 1921, Gruezo 1979)

Leptogium marginellum (Sw.) S. Gray (Gruezo 1979)

Leptogium moluccanum var. *hypoleium* Vain. (Vainio 1921, Gruezo 1979)

Leptogium moluccanum var. *hypotrachynum* Vain. (Vainio 1921, Gruezo 1979)

▲ *Leptogium pacificum* Vain. Gruezo (1979) (Vainio 1921)

Leptogium phyllocarpum (Pers.) Mont. (Herre 1946, Gruezo 1979, Sipman et al. 2013) = *Leptogium phyllocarpum* var. *phyllocarpum* (Pers.) Mont.

Leptogium phyllocarpum var. *daedaleum* (Flot.) Nyl. (Vainio 1921, Gruezo 1979)

Leptogium phyllocarpum var. *macrocarpum* Nyl. (Vainio 1921, Gruezo 1979)

Leptogium phyllocarpum var. *phyllocarpum* (Pers.) Mont. [as *Leptogium phyllocarpum* (Pers.) Mont. (Herre 1946, Gruezo 1979, Sipman et al. 2013)]

▲ *Leptogium phyllogenum* Vain. (Vainio 1921, Gruezo 1979)

Leptogium phyllogenum fo. *subsiniatum* Vain. (Vainio 1921, Gruezo 1979)

▲ *Leptogium propaguliferum* Vain. (Vainio 1921, Gruezo 1979)

* *Leptogium rottleri* Mont. (Gruezo 1979)

Leptogium subaridum P.M. Jørg. & Goward (Paguirigan et al. 2019)

Leptogium tremelloides (Ach.) Gray (Gruezo 1979)
Leptogium tremelloides var. *azureum* (Sw.) Nyl. (Herre 1946)
Leptogium trichophorum Müll. Arg. (Vainio 1921, Gruezo 1979)
Leptogium ulvaceum var. *laevigatum* Vain. (Vainio 1921, Gruezo 1979)
Leptogium ulvaceum var. *ryssaleum* Vain. (Vainio 1921, Gruezo 1979)
▲ *Leptogium undulans* Vain. (Vainio 1921, Gruezo 1979)
Leptotrema phaeosporum var. *vainioana* Räsänen (Gruezo 1979): possibly a synonym of *Leucodecton phaeosporum* (Nyl.) Rivas Plata & Lücking
Leptotrema wightii (Taylor) Müll. Arg. (Sipman et al. 2013) = *Sanguinotrema wightii* (Taylor) Lücking
Letrouitia domingensis (Pers.) Hafellner & Bellem. (Hafellner 1981) [as *Bombyliospora domingensis* var. *colorata* Vain. (Vainio 1921, Gruezo 1979) and *Bombyliospora domingensis* var. *glaucotropa* Nyl. (Vainio 1921, Gruezo 1979)]
Letrouitia flavocrocea (Nyl.) Hafellner & Bellem. (Hafellner 1981)
Letrouitia muralis Hafellner (Hafellner 1981, Sipman et al. 2013)
Letrouitia parabola (Nyl.) R. Sant. & Hafellner (Sipman et al. 2013)
Letrouitia transgressa (Malme) Hafellner & Bellem. (Hafellner 1981)
Letrouitia vulpina (Tuck.) Hafellner & Bellem. (Hafellner 1981, Sipman et al. 2013), *Sporopodium vulpinum* var. *ochrothallinum* Vain. (Vainio 1921, Gruezo 1979), *Sporopodium vulpinum* var. *subglaucescens* (Nyl.) Vain. (Vainio 1921, Gruezo 1979)]
Leucodermia leucomelos (L.) Kalb [as *Anaptychia leucomelaena* (L.) Vain. (Vainio 1913, Herre 1946)]
Leucodecton glaucescens (Nyl.) Frish (Sipman et al. 2013)
Leucodecton phaeosporum (Nyl.) Rivas Plata & Lücking [as *Thelotrema phaeosporum* Nyl. (Vainio 1921, Gruezo 1979)]
Leucodecton samaranum (Nyl.) Mangold [as *Thelotrema samaranum* Vain. (Vainio 1921, Gruezo 1979)]
Linhartia luzonica Rehm (Rehm 1914) = *Asterothyrium decipiens* (Rehm) R. Sant.
Linhartia philippinensis Rehm (Rehm 1914) = *Psorotheciopsis philippinensis* (Rehm) Lücking
Lobaria adscripturiens (Nyl.) Hue (Gruezo, 2007)
▲ * *Lobaria alavae* Gruezo (Gruezo 2006a)
▲ *Lobaria albidoglauescens* Vain. (Vainio 1913)
▲ *Lobaria asiatica* Vain. (Vainio 1913)
▲ * *Lobaria banahawensis* Gruezo (Gruezo 2006b)
▲ *Lobaria clemensiae* Vain. (Vainio 1913, Gruezo 2006b)
Lobaria crassior Vain. (Gruezo 2007)
Lobaria discolor (Bory) Hue. (Vainio 1913) [as *Lobaria stictaeformis* (Schaer.) Vain. (Vainio 1913), Gruezo 2006b]
▲ * *Lobaria dogmae* Gruezo (Gruezo 2006b)
▲ *Lobaria ferax* Vain. (Gruezo 2006b)
▲ *Lobaria ferax* var. *genuina* Vain. (Vainio 1913)
▲ *Lobaria ferax* var. *stenophyllodes* Vain. (Vainio 1913)
▲ *Lobaria ferax* var. *subsINUOSA* Vain. (Vainio 1913)
▲ * *Lobaria grisea* Gruezo (Gruezo 2006a)
▲ *Lobaria insularis* Vain. (Vainio 1913, Gruezo 2006b)
* *Lobaria insularis* Vain. subsp. *subdiscolor* (Yoshim.) Gruezo comb. et. stat. nov. (Gruezo 2006b)
▲ *Lobaria intermedia* (Nyl.) Vain. (Vainio 1913) [as *Lopadium intermedium* R. Sant. (Gruezo 1979)]
▲ *Lobaria interversans* (Nyl.) Vain. (Vainio 1913)
Lobaria isidiophora Yoshim. (Gruezo 2006b)
▲ *Lobaria isidiosa* (Müll. Arg.) Vain. (Vainio 1913, Gruezo 2006a)

▲ * *Lobaria luzonensis* (Raes.) Gruezo comb. nov. (basionym: *Lobarina luzonensis* Raes.) (Gruezo 2007)
 ▲ *Lobaria macgregorii* Vain. (Vainio 1913)
 ▲ *Lobaria masonii* Yoshim. (Gruezo 2006b)
 ▲ *Lobaria meridionalis* Vain. (Sipman et al. 2013, Gruezo 2006b)
 ▲ * *Lobaria oreophila* Gruezo (Gruezo 2006b)
 ▲ *Lobaria philippina* Vain. (Vainio 1913)
 ▲ * *Lobaria phyllidiata* Gruezo (Gruezo 2006a)
Lobaria pseudopulmonaria Gyeln. (Gruezo 2006a)
Lobaria pulmonaria (L.) Hoffm. [as *Lobaria pulmonaria* fo. *hypomela* (Delise) Cromb. (Herre 1951, Azuelo & Puno 2018)]
Lobaria pulmonaria fo. *hypomela* (Delise) Cromb. (Herre 1951) = *Lobaria pulmonaria* (L.) Hoffm.
Lobaria retigera (Bory) Trevis (Vainio 1913) = *Lobaria retigera* var. *retigera* (Bory) Trevis
 ▲ * *Lobaria ramicola* Gruezo (Gruezo 2006b)
Lobaria retigera (Bory) Trev. (Gruezo 2006a)
Lobaria retigera var. *retigera* (Bory) Trevis [as *Lobaria retigera* (Bory) Trevis (Vainio 1913)]
 ▲ *Lobaria robinsonii* Vain. [as *Lobaria discolor* f. *robinsonii* (Vain.) Yoshim. (Vainio 1913, Gruezo 2006b)]
 ▲ * *Lobaria stenophyllodes* (Vain.) Gruezo comb. et stat. nov. (Gruezo 2006b)
Lobaria stictaeformis (Schaer.) Vain. (Vainio 1913) = *Lobaria discolor* (Delise) Hue (Vainio 1913)
Lobaria sublaevis (Nyl.) Yoshim. (Gruezo 2007)
 ▲ *Lobaria subscrobiculata* Vain. (Vainio 1913, Gruezo 2006b)
 ▲ * *Lobaria subnuda* (Vain. apud Raes.) Gruezo comb. et stat. nov. (Gruezo 2006b)
 ▲ * *Lobaria subsinuosa* (Vain.) Gruezo comb. et stat. nov. (Gruezo 2006b)
 ▲ * *Lobaria subsinuosa* (Vain.) Gruezo subsp. *subinterversans* (Gyeln.) Gruezo comb. et stat. nov. (Gruezo 2006b)
Loflammia epiphylla (Fée) Lücking & Vězda [as *Lopadium flammeum* Müll. Arg. (Vainio 1921, Gruezo 1979), *Sporopodium fulgurans* Vain. (Vainio 1921)]
Loflammia gabrielis (Müll. Arg.) Vězda (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Bacidia gabrielis* (Müll. Arg.) Zahlbr. (Vainio 1921, Gruezo 1979)]
Lopadium flammeum Müll. Arg. (Vainio 1921, Gruezo 1979) = *Loflammia epiphylla* (Fée) Lücking & Vězda
Lopadium foliicola (Fée) R. Sant. (Gruezo 1979) = *Calopadia foliicola* (Fée) Vězda
Lopadium fuscum Müll. Arg. (Gruezo 1979) = *Calopadia fusca* (Müll. Arg.) Vězda
Lopadium intermedium R. Sant. (Gruezo 1979) = *Loflammia intermedia* (R. Sant.) Vězda
Lopadium phyllogenum (Müll. Arg.) Zahlbr. (Gruezo 1979) = *Calopadia phyllogenum* (Müll. Arg.) Vězda
Lopadium puiggarii (Müll. Arg.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Calopadia puiggarii* (Müll. Arg.) Vězda
Lopadium tayabasense (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Calopadiopsis tayabasensis* (Vain.) Lücking & R. Sant.
Lopadium vermiculiferum (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) [as *Sporopodium vermiculiferum* Vain. (Vainio 1921)] = *Calopadia vermiculifera* (Vain.) Sérus.
Malmidea bakeri (Vain.) Kalb, Rivas Plata & Lumbsch [as *Lecidea bakeri* Vain. (Gruezo 1979)]
Malmidea chrysostigma (Vain.) Kalb, Rivas Plata & Lumbsch (Sipman et al. 2013) [as *Lecidea chrysostigma* Vain. (Vainio 1921, Gruezo 1979)]
Malmidea fenicis (Vain.) Kalb, Rivas Plata & Lumbsch [as *Lecidea fenicis* Vain. (Vainio 1921, Gruezo 1979)]
Malmidea granifera (Ach.) Kalb, Rivas Plata & Lumbsch [as *Lecidea granifera* var. *lecanoroides* Vain. (Vainio 1921, Gruezo 1979)]
Malmidea piperis (Spreng.) Kalb, Rivas Plata & Lumbsch [as *Lecidea piperis* (Spreng.) Nyl. (Herre 1946)]

Malmidea polisensis (Vain.) Kalb, Rivas Plata & Lumbsch [as *Lecidea polisensis* Vain. (Vainio 1921, Gruezo 1979)]

▲ *Malmidea sorsogona* (Vain.) Kalb, Rivas Plata & Lumbsch [as *Lecidea sorsogona* Vain. (Vainio 1921, Gruezo 1979)]

Malmidea subaurigera (Vain.) Kalb, Rivas Plata & Lumbsch (Sipman et al. 2013) [as *Lecidea subaurigera* Vain. (Vainio 1921, Gruezo 1979), *Lecidea subaurigera* var. *decolorata* Vain. (Vainio 1921, Gruezo 1979)]

▲ *Malmidea taytayensis* (Vain.) Kalb, Rivas Plata & Lumbsch (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Lecidea taytayensis* Vain. (Vainio 1921, Gruezo 1979)]

Marcelaria cumingii (Mont.) Aptroot, Nelsen & Parmen (Bawingan et al. 2014, Nelsen & Aptroot 2016) [as *Laurera cumingii* (Mont.) Zahlbr. (Herre 1946), *Trypethelium cumingii* Mont. (Gruezo 1979)]

Maronea constans (Nyl.) Hepp (Aptroot & Sipman 1989)

Mazosia bambusae (Vain.) R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Chiodecton bambusae* Vain. (Vainio 1921)]

Mazosia melanophthalma (Müll. Arg.) R. Sant. (Gruezo 1979, Lücking 2008) [as *Chiodecton granulare* var. *subpruinoseum* Vain., *Metasphaeria incompleta* Rehm (Rehm 1916, Vainio 1921)]

Mazosia paupercula (Müll. Arg.) R. Sant. (Gruezo 1979)

Mazosia phyllosema (Nyl.) Zahlbr. (Santesson 1952, Gruezo 1979, Lücking 2008) [as *Arthopyrenia philippensis* Räsänen, *Chiodecton ramosii* Vain., *Gilletiella latemaculans* Rehm, *Mazosia ramosii* Zahlbr. (Rehm 1914, Vainio 1921)]

Mazosia ramosii Zahlbr. (Santesson 1952) = *Mazosia phyllosema* (Nyl.) Zahlbr.

Mazosia rotula (Mont.) Mass. (Gruezo 1979)

Megalalaria leptocheila (Tück) Fryday & Lendemer (Sipman et al. 2013)

Megalospora atrorubicans subsp. *atorubicans* (Sipman 1983)

Megalospora atrorubicans subsp. *sendaiensis* (Räsänen) Sipman (Sipman 1983)

Megalospora coccodes subsp. *nigricans* (Müll. Arg.) Sipman (Sipman 1983, Sipman et al. 2013)

Megalospora sulphurata Meyen (Gruezo 1979, Sipman 1983, Sipman et al. 2013) [as *Catillaria sulphurata* var. *lecanocheila* Vain. (Vainio 1921, Gruezo 1979), *Catillaria sulphurata* var. *ochrocheila* Vain. (Vainio 1921, Gruezo 1979), *Catillaria sulphurata* var. *phaeocheila* Vain. (Gruezo 1979, Vainio 1921)]

Megalospora tuberculosa (Fée) Sipman (Sipman 1983, Sipman et al. 2013) [as *Bombyliospora angela* Herre (Herre 1951, Gruezo 1979), *Bombyliospora melanocarpa* (Nyl.) A. Massal. (Vainio 1921, Gruezo 1979) and *Bombyliospora nigrata* (Müll. Arg.) Vain. (Vainio 1921, Gruezo 1979)]

Megalospora cylindrophora (Tayl.) Vain. (Vainio 1921, Gruezo 1979) = *Bacidia cylindrophora* (Taylor) Kistenich, Timdal, Bendiksby & S. Ekman

* *Megalospora macgregorii* Vain. (Vainio 1921, Gruezo 1979)

Melanopsamma nitens var. *talaumae* Rehm (Rehm 1914) = *Strigula nitidula* Mont.

Melanotheca negrosensis Herre (Gruezo 1979) = *Pyrenula leucotrypa* (Nyl.) Upreti

▲ *Melaspilea mauca* Vain. (Vainio 1921, Gruezo 1979)

▲ *Melaspilea pongamiae* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)

Melaspilea triseptata Räsänen (Gruezo 1979)

Melaspilella microspila Vain. (Vainio 1921)

▲ *Melaspilella pandani* Vain. (Vainio 1921)

Metasphaeria incompleta Rehm (Santesson 1952) = *Mazosia melanophthalma* (Müll. Arg.) R. Sant.

Microphiale diluta (Pers.) A. Zahlbr. (Herre 1946) = *Coenogonium pineti* (Ach.) Lücking & Lumbsch

Microphiale lutea (Dicks.) A. Zahlbr. (Herre 1946) = *Coenogonium luteum* (Dicks.) Kalb & Lücking

▲ *Microphiale philippinensis* (Rehm) Zahlbr. (Rehm 2014)

Micropyrenula olivacea Vain. (Vainio 1921) = *Microtheliopsis uleana* Müll. Arg.

Microthelia palavana Vain. (Vainio 1921) = *Anisomeridium palavanum* (Vain.) R.C. Harris (Vainio 1921, Sipman et al. 2013)

Microtheliopsis uleana Müll. Arg. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Micropyrenula olivacea* Vain. (Vainio 1921)]

Mollisia copelandi Rehm (Rehm 1907) = *Fellhanera bouteillei* (Desm.) Vězda

Myelochroa aurulenta (Tuck.) Elix & Hale [as *Parmelina aurulenta* (Tuck.) Hale (Gruezo 1979)]

Myelochroa denegans (Nyl.) Elix & Hale (Sipman et al. 2013)

Myelochroa cf. metarevoluta (Asahina) Elix & Hale (Aptroot & Sipman 1989)

Myelochroa perisidians (Nyl.) Elix & Hale [as *Parmelina perisidians* (Nyl.) Hale (Gruezo 1979)]

Myelochroa xantholepis (Mont. & Bosch) Elix & Hale [as *Parmelia biformis* fo. *dataensis* Vain. (Vainio 1909), *Parmelia biformis* fo. *pauaiensis* Vain. (Vainio 1909), *Parmelina xantholepis* (Mont. & v.d. Bosch) Hale (Vainio 1909, Gruezo 1979)]

Myriotrema cinereoglaucescens (Vain.) Hale [as *Thelotrema cinereoglaucescens* Vain. (Vainio 1921, Gruezo 1979)]

Myriotrema mammilare (Hale) Hale [as *Phaeotrema mammilare* Hale (Gruezo 1979)]

Myriotrema subviride Rivas Plata, Sipman & Lücking (Rivas Plata et al. 2014)

Nephroma isidiosum (Nyl.) Gyeln. (Paguirigan et al. 2019)

Nephroma tropicum (Müll. Arg.) Zahlbr. (Vainio 1913, Gruezo 1979) [as *Opisteria tropica* (Müll. Arg.) Vain. (Vainio 1913)]

Nephromopsis straminea Räsänen [as *Cetraria straminea* Vain. (Vainio 1909), *Cetraria straminea* Vain. var. *sorediata* Räsänen (Gruezo 1979)]

Nigrothelium tropicum (Ach.) Lücking, M.P. Nelsen & Aptroot (Aptroot & Lücking 2016) [as *Zignoella nobilis* Rehm (Rehm 1916), *Trypethelium tropicum* (Ach.) Müll. Arg. (Sipman et al. 2013)]

Nipponoparmelia isidioclada (Vain.) K.H. Moon, Y. Ohmura & Kashiw. [as *Parmelia psoromoides* Räsänen (Gruezo 1979), *Parmelia sectilis* Hale (Gruezo 1979)]

Nitidochapsa phlyctidea (Vain.) Lücking & Lumbsch [as *Graphis phlyctidea* Vain. (Vainio 1921, Gruezo 1979)]

Nyungwea anguinella (Nyl.) Aptroot [as *Chiodecton anguinellum* (Nyl.) Vain. (Vainio 1921), *Enterographa anguinella* (Nyl.) Redinger (Vainio 1921, Gruezo 1979), *Chiodecton calophylli* Vain. (Vainio 1921, Gruezo 1979)]

▲ ***Ocellularia apayoensis*** (Vain.) Zahlbr. [as *Thelotrema apayoense* Vain. (Vainio 1921, Gruezo 1979)]

Ocellularia bahiana (Ach.) Frisch (Sipman et al. 2013)

▲ ***Ocellularia bataana*** (Vain.) Zahlbr. [as *Thelotrema bataanum* Vain. (Vainio 1921, Gruezo 1979)]

Ocellularia berkeleyana (Mont.) A. Zahlbr. (Herre 1946, Sipman et al. 2013, Bawingan et al. 2014) = *Stegobolus berkeleyanus* Mont.

Ocellularia cavata (Ach.) Müll.Arg. [as *Thelotrema chrysostroma* Vain. (Vainio 1921, Gruezo 1979)]

Ocellularia concolor Meyen & Flot. (Vainio 1921, Herre 1946, Gruezo 1979) [as *Thelotrema concolor* (Mey. & Flot.) Vain. (Vainio 1921, Gruezo 1979)]

Ocellularia curranii (Vain.) Kraichak, Lücking & Lumbsch [as *Thelotrema curranii* Vain. (Vainio 1921, Gruezo 1979)]

Ocellularia defossa Müll. Arg. (Gruezo 1979) = *Thelotrema defossum* (Müll. Arg.) Mangold

Ocellularia dolichotata (Nyl.) Zahlbr. (Sipman et al. 2013)

Ocellularia emergens (Vain.) Zahlbr. [as *Thelotrema emergens* Vain. (Vainio 1921, Gruezo 1979)]

Ocellularia flavida Hale (Gruezo 1979)

Ocellularia gigantospora Rivas Plata, Sipman & Lücking (Rivas Plata et al. 2014)

Ocellularia grandis (Hale) Hale [as *Thelotrema grande* Hale. (Gruezo 1979)]

Ocellularia groenhartii Hale (Sipman et al. 2013)

Ocellularia karalensis Patw. & C.R. Kulk. ex Hale (Sipman et al. 2013)

Ocellularia leucocavata Rivas Plata, Sipman & Lücking (Rivas Plata et al. 2014)
Ocellularia lumbschii S. Joshi & Hur (Fajardo & Bawingan 2019)
Ocellularia marivelensis (Vain.) Hale (Sipman et al. 2013) = *Rhabdodiscus marivelensis* (Vain.) Rivas Plata, Lücking & Lumbsch
Ocellularia massalongoi (Mont.) Hale (Sipman et al. 2013)
Ocellularia microstoma (Müll. Arg.) Hale (Sipman et al. 2013)
Ocellularia nylanderiana Hale. (Gruezo 1979)
Ocellularia oculata (Vain.) Rivas Plata, Lücking & Lumbsch [as *Thelotrema oculatum* Vain. (Vainio 1921, Gruezo 1979)]
Ocellularia papillata (Leight.) Zahlbr. (Sipman et al. 2013)
Ocellularia perforata (Leight.) Müll. Arg. (Sipman et al. 2013)
Ocellularia stictita (Hale) Hale [as *Thelotrema stictinum* Vain. (Vainio 1921, Gruezo 1979)]
Ocellularia straminea (Vain.) Hale [as *Thelotrema stramineum* Vain. (Vainio 1921, Gruezo 1979)]
Ocellularia sublaeviusculoides Rivas Plata, Sipman & Lücking (Rivas Plata et al. 2014)
Ocellularia terebrata (Ach.) Müll. Arg. (Sipman et al. 2013) [as *Thelotrema terebratum* Ach. var. *abbreviatum* Vain. (Vainio 1921, Gruezo 1979)]
▲ *Ocellularia vizcayensis* Rivas Plata, Duya & Lücking (Lumbsh et al. 2011)
Ochrolechia pallescens (L.) Koerb. (Vainio 1913, Gruezo 1979)
Opegrapha anguinella (Nyl.) Ertz & Diederich (Vainio 1921, Gruezo 1979, Sipman et al. 2013) = *Nyungwea anguinella* (Nyl.) Aptroot
Opegrapha apomelaena A. Massal. (Pinas et al. 2014, Bawingan et al. 2014) = *Alyxoria apomelaena* (A. Massal.) Ertz
▲ *Opegrapha arengae* Vain. (Vainio 1921, Gruezo 1979)
Opegrapha comma Ach. (Gruezo 1979)
* *Opegrapha comma* var. *tenella* Mont. (Gruezo 1979)
▲ *Opegrapha concatenata* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
▲ *Opegrapha consors* Vain. (Vainio 1921, Gruezo 1979)
▲ *Opegrapha discolor* Vain. (Vainio 1921, Gruezo 1979)
Opegrapha filicina Mont. (Vainio 1921) = *Fouragea filicina* (Mont.) Trevis.
▲ *Opegrapha gigantea* Vain. (Vainio 1921, Gruezo 1979)
Opegrapha graphidiza Nyl. (Vainio 1921, Gruezo 1979) = *Dimidiographa graphidiza* (Nyl.) Ertz & Tehler
▲ *Opegrapha gregalis* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
▲ *Opegrapha heterospora* Vain. (Vainio 1921, Gruezo 1979)
▲ *Opegrapha hoyae* Vain. (Vainio 1921, Gruezo 1979)
Opegrapha insularis Vain. (Vainio 1921) = *Aulaxina opegraphina* Fée
▲ *Opegrapha irosina* Vain. (Vainio 1921, Gruezo 1979)
Opegrapha leptoterodes Nyl. (Vainio 1921, Gruezo 1979)
Opegrapha leptoterodes var. *merrillii* Vain. (Gruezo 1979)
Opegrapha medusuliina Nyl. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
Opegrapha negrosina Vain. (Vainio 1921, Gruezo 1979) = *Graphis negrosina* (Vain.) Lücking
Opegrapha obtusella Nyl. (Vainio 1921, Gruezo 1979)
Opegrapha physciae Y. Joshi (Joshi 2019)
Opegrapha prosodea var. *nana* Vain. (Vainio 1921, Gruezo 1979)
Opegrapha prosodea var. *quassiaecola* (Fée) Vain. (Vainio 1921, Gruezo 1979)
Opegrapha prosodea var. *sclerocarpa* (Meyen & Flot.) Vain. (Vainio 1921, Herre 1946, Gruezo 1979, Sipman et al. 2013)
Opegrapha puiggarii Müll. Arg. (Gruezo 1979) = *Fouragea puiggarii* (Müll. Arg.) Zahlb
Opegrapha rigida Fée (Gruezo 1979)
Opegrapha robusta Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) = *Zwackhia robusta* (Vain.) Ertz
▲ *Opegrapha robusta* Vain var. *verruculosa* Vain. (Vainio 1921, Gruezo 1979)

Opegrapha subrimulosa Nyl. (Sipman et al. 2013)
Opegrapha varians (Müll. Arg.) Vain. (Lucban & Paguirigan 2019)
Opisteria tropica (Müll. Arg.) Vain. (Vainio 1913) = *Nephroma tropicum* (Müll. Arg.) Zahlbr.
Oropogon asiaticus Asah. (Gruezo 1979)
Oropogon loxensis fo. *fuscescens* Vain. (Vainio 1909, Gruezo 1979)
Pallidogramme albida (Vain.) Tabaquero, Bawingan & Lücking (Tabaquero et al. 2013)
Pallidogramme chlorocarpoides (Nyl.) Staiger, Kalb & Lücking (Vainio 1921, Sipman et al. 2013, Tabaquero et al. 2013) [as *Graphis chlorocarpoides* Nyl. (Vainio 1921)]
Pallidogramme chrysenteron (Mont.) Staiger, Kalb & Lücking (Herre 1946, Gruezo 1979, Tabaquero et al. 2013) [as *Graphis chrysenteron* Mont. (Gruezo 1979), *Phaeographis chrysenteron* (Mont.) Müll. Arg. (Herre 1946)]
Pannaria caesiocinerea (Vain.) P.M. Jørg [as *Pannaria rubiginosa* fo. *caesiocinerea* Vain. (Vainio 1921, Gruezo 1979)]
▲ *Pannaria carneopallens* Vain. (Vainio 1921, Gruezo 1979)
Pannaria dispartita (Nyl.) Vain. (Vainio 1921, Gruezo 1979)
**Pannaria dispartita* fo. *byssoscheila* Vain. (Gruezo 1979)
Pannaria endomilta Vain. (Vainio 1921, Gruezo 1979) = *Lepidocollema endomiltum* (Vain.) P.M. Jørg
▲ *Pannaria involuta* Vain. (Vainio 1921, Gruezo 1979)
Pannaria leiostroma Nyl. (Vainio 1921, Gruezo 1979) = *Parmeliella mariana* (Fr.) P.M. Jørg & D.J. Galloway (Sipman et al. 2013)
▲ *Pannaria lepidophora* var. *lepidoscheila* Vain. (Vainio 1921, Gruezo 1979)
▲ *Pannaria lepidophora* var. *simplicior* Vain. (Vainio 1921, Gruezo 1979)
Pannaria leucosticta (Tuck.) Nyl. Herre (1946) (Vainio 1921, Gruezo 1979)
Pannaria leucosticta fo. *subconcolor* Müll. Arg. (Vainio 1921, Gruezo 1979)
▲ *Pannaria limbata* Vain. (Vainio 1921, Gruezo 1979)
Pannaria lurida (Mont.) Nyl. (Herre 1946) [as *Collema luridum* Mont. (Herre 1946, Gruezo 1979, Paguirigan et al. 2019)]
Pannaria mariana (E. Fr.) Müll. Arg. (Herre 1946) = *Parmeliella mariana* (Fr.) P.M. Jørg & D.J. Galloway (Sipman et al. 2013)
Pannaria mariana var. *funnebris* (Krmph.) Vain. (Vainio 1921, Gruezo 1979) = *Parmeliella mariana* (Fr.) P.M. Jørg & D.J. Galloway (Sipman et al. 2013)
Pannaria maritima P.M. Jørg. (Paguirigan et al. 2019)
Pannaria radiata (Nyl.) Dodge (Vainio 1921, Gruezo 1979)
▲ *Pannaria ramosii* Vain. (Vainio 1921, Gruezo 1979)
Pannaria rubiginosa (Thunb.) Del. (Herre 1946)
Pannaria rubiginosa fo. *caesiocinerea* Vain. (Vainio 1921, Gruezo 1979) = *Pannaria caesiocinerea* (Vain.) P.M. Jørg
Pannaria rubiginosa fo. *pallidescens* Vain. (Gruezo 1979)
Pannaria rubiginosa subfo. *byssophora* Vain. (Vainio 1921, Gruezo 1979)
Pannaria sorediata Vain. (Vainio 1921, Gruezo 1979) = *Lepidocollema wainioi* (Zahlbr.) P.M. Jørg
▲ *Pannaria stylophora* var. *disserpens* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
▲ *Pannaria stylophora* var. *lutea* Herre (Herre 1951, Gruezo 1979)
▲ *Pannaria stylophora* var. *perconfluens* Vain. (Vainio 1921, Gruezo 1979)
Pannoparmelia angustata (Pers.) Zahlbr. [as *Anzia angustata* (Pers.) Müll. Arg. var. *soredimarginata* Räsänen (Gruezo 1979)]
Parmelia americana (Mey & Flot.) Mont (Vainio 1909, Gruezo 1979) = *Hypotrachyna americana* (Meyen & Flot.) Divakar, A. Crespo, Sipman, Elix & Lumbsch
Parmelia applanata Fée (Gruezo 1979) = *Dirinaria applanata* (Fée) D.D. Awasthi
Parmelia argena (Ach.) Spreng. (Lucban & Paguirigan 2019)

Parmelia biformis fo. *dataensis* Vain. (Vainio 1909) = *Myelochroa xantholepis* (Mont. & Bosch) Elix & Hale

Parmelia biformis fo. *pauaiensis* Vain. (Vainio 1909) = *Myelochroa xantholepis* (Mont. & Bosch) Elix & Hale

Parmelia bulbochaeta Hale. (Gruezo 1979) = *Bulbothrix bulbochaeta* (Hale) Hale

Parmelia canescens Kurok. (Gruezo 1979) = *Hypotrachyna sublaevigata* (Nyl. ex Tuck.) Hale

Parmelia cetrarioides Delise (Herre 1951, Gruezo 1979) = *Cetrelia cetrarioides* (Delise) W.L. Culb & C.L. Culb

Parmelia cetrata Ach. (Vainio 1909, Herre 1946, Gruezo 1979) = *Parmotrema cetratum* (Ach.) Hale

Parmelia cirrhata var. *propagulifera* Räsänen (Gruezo 1979) = *Hypotrachyna vexans* (Zahlbr. ex W.L. Culb. & C.F. Culb.) Divakar, A. Crespo, Sipman, Elix & Lumbsch

Parmelia claudelii var. *clemensiae* Vain. (Vainio 1909, Gruezo 1979) = *Parmotrema cristiferum* (Taylor) Hale

Parmelia coralloidea (Mey. & Flot.) Vain. (Vainio 1909) = *Parmotrema tinctorum* (Despr. ex Nyl.) Hale (Bawingan et al. 2017)

Parmelia corniculans Nyl. Fl. (Vainio 1909) = *Parmotrema corniculans* (Nyl.) Hale (Vainio 1909, Gruezo 1979, Bawingan et al. 2017)

Parmelia dactylifera Vain. (Santos et al. 1964) = *Hypotrachyna dactylifera* (Vain.) Hale

Parmelia hookeri Tayl. (Vainio 1909, Gruezo 1979) = *Bulbothrix laevigatula* (Nyl.) Hale

Parmelia laevigatula Nyl. (Gruezo 1979) = *Bulbothrix laevigatula* (Nyl.) Hale

Parmelia latissima Fée. var. *cristifera* (Tayl.) Hue. (Vainio 1909) = *Parmotrema cristiferum* (Tayl.) Hale (Vainio 1909, Gruezo 1979, Bawingan et al. 2017)

Parmelia luzonensis Räsänen (Gruezo 1979) = *Parmotrema praesorediosum* (Nyl.) Hale

Parmelia manilensis Vain. (Vainio 1909, Gruezo 1979) = *Hypotrachyna adducta* (Nyl.) Hale

Parmelia merrillii Vain. (Vainio 1909, Gruezo 1979) = *Parmotrema merrillii* (Vain.) Hale

Parmelia nilgherrensis Nyl. (Vainio 1909) = *Parmotrema nilgherrense* (Nyl.) Hale

Parmelia pannosa Ach. (Gruezo 1979) = *Parmeliella pannosa* (Sw.) Müll. Arg.

Parmelia perlata (Huds.) Ach. (Vainio 1909, Herre 1946, Gruezo 1979) = *Parmotrema perlatum* (Huds.) M. Choisy

Parmelia psoromoides Räsänen (Gruezo 1979) = *Nipponoparmelia isidioclada* (Vain.) K.H. Moon, Y. Ohmura & Kashiw

Parmelia relicina (E. Fries) (Herre 1946) = *Relicina relicinula* (Müll. Arg.) Hale

Parmelia sandwichiana Pers. (Gruezo 1979) = *Parmeliella mariana* (Fr.) P.M. Jørg & D.J. Galloway (Sipman et al. 2013)

Parmelia sectilis Hale (Gruezo 1979) = *Nipponoparmelia isidioclada* (Vain.) K.H. Moon, Y. Ohmura & Kashiw.

Parmelia sorocheila Vain. (Vainio 1909, Gruezo 1979) = *Hypotrachyna sorocheila* (Vain.) Divakar, A. Crespo, Sipman, Elix & Lumbsch

Parmelia squarrosa Hale (Lucban & Paguirigan 2019)

Parmelia subdissecta Nyl. (Vainio 1909, Gruezo 1979) = *Bulbothrix subdissecta* (Nyl.) Hale

Parmelia sublaevigata Nyl. fo. *isidiosa* Müll. Arg. (Gruezo 1979) = *Bulbothrix sublaevigatula* (Nyl.) Hale

Parmelia tinctorum Despr. ex Nyl. (Gruezo 1979) = *Parmotrema tinctorum* (Despr. ex Nyl.) Hale (Bawingan et al. 2017)

Parmelia zollingeri Hepp (Vainio 1909) = *Parmotrema zollingeri* (Hepp) Hale

Parmeliella brisbanensis (C. Knight) P.M. Jørg & D.J. Galloway (Sipman et al. 2013) = *Lepidocollema brisbanense* (C. Knight) P.M. Jørg.

Parmeliella mariana (Fr.) P.M. Jørg & D.J. Galloway (Sipman et al. 2013) [as *Pannaria mariana* (E. Fr.) Müll. Arg. (Herre 1946), *Parmelia sandwichiana* Pers. (Gruezo 1979), *Pannaria mariana* (Fr.) Müll. Arg. var. *funnebris* (Krm.) Vain. (Vainio 1921, Gruezo 1979), *Pannaria leiostroma* Nyl. (Vainio 1921, Gruezo 1979)] = *Lepidocollema marianum* (Fr.) P.M. Jørg.

Parmeliella nigrocincta (Mont.) Müll. Arg. (Vainio 1921, Gruezo 1979)
Parmeliella nigrocinerea (Nyl.) Vain. (Vainio 1921, Gruezo 1979)
Parmeliella obliterans (Nyl.) Vain. (Gruezo 1979)
Parmeliella obliterans var. ***depauperata*** Vain. (Vainio 1921, Gruezo 1979)
Parmeliella obliterans var. *philippina* Vain. (Vainio 1921, Gruezo 1979) = *Parmeliella philippina* (Vain.) P.M. Jørg
Parmeliella pannosa (Sw.) Müll. Arg. [as *Parmelia pannosa* Ach. (Gruezo 1979)]
Parmeliella philippina (Vain.) P.M. Jørg [as *Parmeliella obliterans* (Nyl.) Vain. var. *philippina* Vain. (Vainio 1921, Gruezo 1979)]
Parmelina aurulenta (Tuck.) Hale (Gruezo 1979) = *Myelochroa aurulenta* (Tuck.) Elix & Hale
Parmelina dissecta (Nyl.) Hale (Gruezo 1979) = *Parmelinopsis horrescens* (Taylor) Elix & Hale
Parmelina horrescens (Tayl.) Hale (Gruezo 1979) = *Parmelinopsis horrescens* (Taylor) Elix & Hale
Parmelina perisidians (Nyl.) Hale (Gruezo 1979) = *Myelochroa perisidians* (Nyl.) Elix & Hale
Parmelina walliciana (Tayl.) Hale (Gruezo 1979) = *Parmelinella wallichiana* (Taylor) Elix & Hale
Parmelina xantholepis (Mont. & v.d. Bosch) Hale (Vainio 1909, Gruezo 1979) = *Myelochroa xantholepis* (Mont. & Bosch) Elix & Hale
Parmelinella wallichiana (Taylor) Elix & Hale [as *Parmelina walliciana* (Tayl.) Hale (Gruezo 1979)]
Parmelinopsis horrescens (Taylor) Elix & Hale [as *Parmelina dissecta* (Nyl.) Hale (Gruezo 1979), *Parmelina horrescens* (Tayl.) Hale (Gruezo 1979)]
Parmelinopsis subinflata (Hale) Benatti & Marcelli [as *Bulbothrix subinflata* (Hale) Hale (Gruezo 1979)]
Parmeliopsis hyperopta (Ach.) Vain. (Domingo et al. 2015)
Parmotrema adpersum (Vain.) Elix [as *Pseudoparmelia adpersa* (Vain.) Hale (Gruezo 1979)]
Parmotrema austrocetratum Elix & J. Johnst. (Elix & Schumm 2001, Bawingan et al. 2017) [as *Rimelia austrocetrata* (Elix & J. Johnst.) Hale & A. Fletcher (Elix & Schumm 2001)]
Parmotrema cetratum (Ach.) Hale (Bawingan et al. 2017) [as *Parmelia cetrata* Ach. (Vainio 1909, Herre 1946, Gruezo 1979)]
Parmotrema clavuliferum (Räsänen) Streimann (Aptroot & Sipman 1989, Bawingan et al. 2017)
Parmotrema cooperi (J. Steiner & Zahlbr.) Sérus. (Elix & Schumm 2001, Bawingan et al. 2017)
Parmotrema corniculans (Nyl.) Hale (Vainio 1909, Gruezo 1979, Bawingan et al. 2017) [as *Parmelia corniculans* Nyl. Fl. (Vainio 1909)]
Parmotrema crinitum (Ach.) Choisy (Bawingan et al. 2017)
Parmotrema cristiferum (Tayl.) Hale (Vainio 1909, Gruezo 1979, Bawingan et al. 2017) [as *Parmelia latissima* Fée. var. *cristifera* (Tayl.) Hue. (Vainio 1909), *Parmelia claudelii* var. *clemensiae* Vain. (Vainio 1909, Gruezo 1979)]
Parmotrema dilatatum (Vain.) Hale (Elix & Schumm 2001, Sipman et al. 2013, Bawingan et al. 2017)
Parmotrema elacinulatum (Kurok.) Streimann (Bawingan et al. 2017)
Parmotrema gardneri (C.W. Dodge) Serus (De Jesus et al. 2016, Bawingan et al. 2017)
Parmotrema grayanum (Hue) Hale (Bawingan et al. 2017)
Parmotrema lobulascens (Steiner) Hale (Elix & Schumm 2001, Sipman et al. 2013, Bawingan et al. 2017)
Parmotrema maclayanum (Müll. Arg.) Hale (Bawingan, et al. 2017)
Parmotrema mellissii (C.W. Dodge) Hale (Aptroot & Sipman 1989, Bawingan et al. 2017)
Parmotrema merrillii (Vain.) Hale [as *Parmelia merrillii* Vain. (Vainio 1909, Gruezo 1979)]
Parmotrema negrosorientale Elix & Schumm (Elix & Schumm 2001, Sipman et al. 2013)
Parmotrema neopustulatum Kurok (Bawingan et al. 2017)
Parmotrema nilgherrense (Nyl.) Hale (Vainio 1909, Gruezo 1979) [as *Parmelia nilgherrensis* Nyl. (Vainio 1909)]
Parmotrema overeemi (Zahlbr.) Elix (Bawingan et al. 2017)

Parmotrema parahypotropum (W.L. Culb) Hale (Bawingan et al. 2017)
Parmotrema perlatum (Huds.) M. Choisy [as *Parmelia perlata* (Huds.) Ach. (Vainio 1909, Herre 1946, Gruezo 1979, Lucban & Paguirigan 2019)]
Parmotrema permutatum (Stirt.) Hale (Elix & Schumm 2001, Sipman et al. 2013, Bawingan et al. 2017)
Parmotrema poolii (C.W. Dodge) Krog. & Swinscow (Bawingan et al. 2017)
Parmotrema praesorediosum (Nyl.) Hale (Bawingan et al. 2017) [as *Parmelia luzonensis* Räsänen (Gruezo 1979)]
Parmotrema pseudonilgherrense (Asahina) Hale (Lucban & Paguirigan 2019)
Parmotrema rampoddense (Nyl.) Hale (Elix & Schumm 2001, Sipman et al. 2013, Bawingan et al. 2017)
Parmotrema reticulatum (Tayl.) Choisy (Gruezo 1979, Domingo et al. 2015, Bawingan et al. 2017, Azuelo & Puno 2018)
Parmotrema saccatilobum (Taylor) Hale (Bawingan et al. 2017, Paguirigan et al. 2019)
Parmotrema sancti-angelii (Lyngé) Hale (Elix & Schumm 2001, Sipman et al. 2013, Bawingan et al. 2017)
Parmotrema subarnoldii (Abbayes) Hale (Bawingan et al. 2017)
Parmotrema subrugatum (Kremp.) Hale (Bawingan et al. 2017)
Parmotrema tinctorum (Despr. ex Nyl.) Hale (Bawingan et al. 2017) [as *Parmelia tinctorum* Despr. ex Nyl. (Gruezo 1979), *Parmelia coralloidea* (Mey. & Flot.) Vain. (Vainio 1909)]
Parmotrema ultralucens (Krog) Hale (Sipman et al. 2013, Bawingan et al. 2017)
Parmotrema vartakii Hale (Bawingan et al. 2017)
Parmotrema zollingeri (Hepp) Hale (Vainio 1909, Gruezo 1979) [as *Parmelia zollingeri* Hepp (Vainio 1909)]
Peltigera canina (L.) Willd. (Gruezo 1979)
▲ *Peltigera crenulata* Vain. (Vainio 1913, Gruezo 1979)
▲ *Peltigera dilacerata* var. *philippina* Räsänen (Gruezo 1979)
Peltigera dolichorrhiza (Nyl.) Nyl. (Vainio 1913, Herre 1946, Gruezo 1979) = *Peltigera dolichorrhiza* f. *dolichorrhiza* (Nyl.) Nyl.
Peltigera dolichorrhiza fo. *dolichorrhiza* (Nyl.) Nyl. [as *Peltigera dolichorrhiza* (Nyl.) Nyl. (Vainio 1913, Herre 1946, Gruezo 1979)]
▲ *Peltigera erioderma* Vain. (Vainio 1913, Gruezo 1979)
▲ *Peltigera macra* Vain. (Vainio 1913, Gruezo 1979)
▲ *Peltigera nana* Vain. (Vainio 1913, Gruezo 1979)
Peltigera polydactylon (Neck.) Hoffm. (Herre 1946)
Peltula obscurans (Nyl.) Glyen. [as *Heppia acarosporoides* Mull. Arg. (Vainio 1921, Gruezo 1979)]
Pertusaria albescens (Huds.) M. Choisy & Wermer (Domingo et al. 2015)
▲ *Pertusaria amara* var. *philippinensis* Raes (Gruezo 1979)
▲ *Pertusaria copelandii* Vain. (Vainio 1913, Gruezo 1979)
Pertusaria corallina (L.) Arnold (Domingo, et al. 2015) = *Lepra corallina* (L.) Hafellner
Pertusaria hemisphaerica (Florke) Erichsen (Domingo et al. 2015) = *Varicellaria hemisphaerica* (Flörke) I. Schmitt & Lumbsch
Pertusaria lactescens Mudd. (Lucban & Paguirigan 2019)
Pertusaria philippina Vain. (Vainio 1913, Gruezo 1979) = *Varicellaria philippina* (Vain.) I. Schmitt & Lumbsch
Pertusaria reducta Stirt. (Vainio 1913, Gruezo 1979) = *Phlyctis argena* (Ach.) Flot.
Pertusaria submultipuncta Nyl. (Vainio 1913, Gruezo 1979)
Pertusaria subvaginata var. *orientalis* Räsänen (Gruezo 1979, Sipman 2010)
Pertusaria velata (Turn.) Nyl. (Vainio 1913, Herre 1946) = *Varicellaria velata* (Turner) I. Schmitt & Lumbsch
▲ *Phaeographina albidolivens* (Vain.) Herre (Vainio 1921, Gruezo 1979)

Phaeographina caesiohians (Nyl.) Redgr. (Gruezo 1979) = *Phaeographis caesiohians* (Nyl.) Luch & Lücking

Phaeographina caesiopruinosa (Fée) Müll. Arg. = *Platygramme caesiopruinosa* (Fée) Fée

Phaeographina contexta (Pers.) Müll. Arg. [as *Graphis contexta* (Pers.) Nyl. (Vainio 1921, Gruezo 1979)]

Phaeographina cumingii (Vain.) Redgr. (Vainio 1921, Gruezo 1979) = *Graphis cumingii* Vain. (Vainio 1921)

Phaeographina exilior (Vain.) Zahlbr. [as *Graphis exilior* Vain. (Vainio 1921, Gruezo 1979)]

Phaeographina exsertissima (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis exsertissima* Vain. (Vainio 1921)

Phaeographina isidiosa (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis isidiosa* Vain. (Vainio 1921)

▲ ***Phaeographina negrosensis*** Herre (Gruezo 1979)

Phaeographina perrigida (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Graphis perrigida* Vain. (Vainio 1921)

Phaeographina torquescens (Nyl.) Redgr. (Gruezo 1979)

Phaeographis articulata fo. ***pluriseptata*** Räs. (Gruezo 1979)

Phaeographis caesiohians (Nyl.) Luch & Lücking [as *Phaeographina caesiohians* (Nyl.) Redgr. (Gruezo 1979)]

Phaeographis caesioradians (Leight.) A.W. Archer (Fajardo & Bawingan 2019)

Phaeographis ceratoides (Vain.) Zahlbr. [as *Graphis ceratoides* Vain. (Vainio 1921, Gruezo 1979)]

Phaeographis chrysenteron (Mont.) Müll. Arg. (Herre 1946) = *Pallidogramme chrysenteron* (Mont.) Staiger, Kalb & Lücking

Phaeographis dendroides (Leight.) Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013, Lucban 2019) = *Sarcographa dendroides* (Leight.) Luch & Lücking

Phaeographis flavescens Dal-Forno & Eliasaro (Domingo et al. 2015)

* ***Phaeographis flexuosa*** (Nyl.) Müll. Arg. (Herre 1946)

Phaeographis hydrina (Vain.) Redinger (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [*Graphis hydrina* Vain. (Vainio 1921, Gruezo 1979)]

Phaeographis inconspicua (Fée) Müll. Arg. (Domingo et al. 2015)

Phaeographis intricans (Nyl.) Staiger (Tabaquero et al. 2013, Fajardo & Bawingan 2019) = *Sarcographa intricans* (Nyl.) Müll. Arg.

Phaeographis labuana (Nyl.) Redinger (Vainio 1921, Sipman et al. 2013)

Phaeographis leprieurii (Mont.) Staiger [as *Sarcographa leprieurii* (Mont.) Zahlbr. (Herre 1946)]

Phaeographis mitis (Vain.) Redgr. (Vainio 1921, Gruezo 1979, Sipman 2010) [as *Graphis mitis* Vain. (Vainio 1921)]

Phaeographis nylanderii (Vain.) Zahlbr. (Fajardo & Bawingan 2019)

Phaeographis pongamiae (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Graphis pongamiae* Vain. (Vainio 1921, Gruezo 1979)]

Phaeographis schizoloma (Müll. Arg.) Müll. Arg. (Tabaquero et al. 2013)

Phaeographis semiglyphis (Vain.) Redinger (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Graphis semiglyphis* Vain. (Vainio 1921)]

Phaeographis wainioana Zahlbr. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)

Phaeographopsis palaeotropica Kalb & Frisch (Sipman et al. 2013)

Phaeotrema mammilare Hale (Gruezo 1979) = *Myriotrema mammilare* (Hale) Hale

Phaeophyscia endococcinodes (Poelt) Essl. (Aptroot & Sipman 1989)

Phaeotrema phaeospermoides (Vain.) Zahlbr. [as *Thelotrema phaeospermoides* Vain. (Vainio 1921, Gruezo 1979)]

Phragmopelthea pulcherrima L. Xavier (Lücking 2008) = *Porina rubentior* (Stirt.) Müll. Arg.

Phragmopelthea pulcherrima var. *octospora* L. Xavier (Lücking 2008) = *Porina rubentior* (Stirt.) Müll. Arg.

Phragmopelthea pulcherrima var. *pentaseptata* L. Xavier (Lücking 2008) = *Porina rubentior* (Stirt.) Müll. Arg.

Phlyctis argena (Ach.) Flot. [as *Pertusaria reducta* Stirt. (Vainio 1913, Gruezo 1979, Lucban 2019)]

▲ ***Phylloblastia dolichospora*** Vain. (Vainio 1921, Gruezo 1979)

Phyllobrassia mirifica var. *integra* Vain. (Vainio 1921) = *Chroodiscus mirificus* (Kremp.) R. Sant.

Phyllobrassia mirifica var. *radians* Vain. (Vainio 1921) = *Chroodiscus mirificus* (Kremp.) R. Sant.

Phylloporina rufula var. *rhodoplaca* Müll. Arg. (Herre 1946) = *Porina rufula* (Kremp.) Vain.

Phyllopsora parvifolia var. *parvifolia* (Pers.) Müll. Arg. [as *Lecidea parvifolia* Pers. (Gruezo 1979)]

Phyllopsora phaeoglauca (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Lecidea phaeoglauca* Vain. (Vainio 1921, Gruezo 1979)]

Physcia aegialita (Ach.) Nyl. (Gruezo 1979) = *Dirinaria aegilata* (Ach.) B. Moore

Physcia aipolia (Ehrh. ex Humb.) Fűrnr. (Lucban & Paguirigan 2019)

Physcia alba (Fée) Müll. Arg. (Herre 1951, Gruezo 1979)

Physcia albicans (Pers.) J.W. Thomson (Santos et al. 1964, Gruezo 1979) = *Heterodermia albicans* (Pers.) Swinscow & Krog

Physcia appplanata (Fée) Nyl. (Herre 1946) = *Dirinaria appplanata* (Fee) D.D. Awasthi (Sipman et al. 2013, Bawingan et al. 2014)

Physcia atrostriata Moberg (Aptroot & Sipman 1989, Sipman et al. 2013)

Physcia clementei (Turner) Lynge (Paguirigan et al. 2019)

Physcia confluens (Fr.) Nyl. (Gruezo 1979) = *Dirinaria confluens* (Fr.) D.D. Awasthi

Physcia crispa var. *hypomela* Tuck. (Vainio 1913, Gruezo 1979)

Physcia crispa var. *mollescens* (Nyl.) Vain. (Vainio 1913, Gruezo 1979)

Physcia dimidiata (Arnold) Nyl. (Aptroot & Sipman 1989)

Physcia grisea (Lam.) Zahlbr. (Paguirigan et al. 2019)

Physcia erumpens Moberg (Aptroot & Sipman 1989)

Physcia fragilescens Zahlbr. (Aptroot & Sipman 1989)

Physcia integrata Nyl. [as *Physcia integrata* var. *obsessa* (Mont.) (Vainio 1913, Gruezo 1979, Lucban & Paguirigan 2019)]

Physcia integrata var. *obsessa* (Mont.) (Vainio 1913, Gruezo 1979) = *Physcia integrata* Nyl.

Physcia integrata var. *sorediosa* Vain. (Vainio 1913, Gruezo 1979) = *Physcia sorediosa* (Vain.) Lynge (Sipman 2010)

Physcia picta (Sw.) Nyl. (Vainio 1913, Herre 1946) = *Dirinaria picta* (Sw.) Schaer. Ex Clem

Physcia krogiae Moberg (Aptroot & Sipman 1989)

Physcia sorediosa (Vain.) Lynge (Sipman 2010) [as *Physcia integrata* var. *sorediosa* Vain. (Vainio 1913, Gruezo 1979)]

Physcia tribacioides Nyl. (Aptroot & Sipman 1989)

Physcia verrucosa Moberg (Aptroot & Sipman 1989)

Physcidia callopis (Meyen & Flot.) Müll. Arg. (Vainio 1921, Herre 1946)

*****Physconia perisidiosa*** (Domingo et al. 2015) [temperate species unknown in the tropics]

Physma byrsaeum (Ach.) Müll. Arg. [as *Collema byrsinum* Ach. (Gruezo 1979), *Physma byrsaeum* fo. *hypomelaenum* Nyl. (Vainio 1921, Gruezo 1979), *Physma byrsaeum* var. *plumbeum* (Schaer.) Vain. (Vainio 1921, Gruezo 1979)]

Physma byrsaeum fo. *hypomelaenum* Nyl. (Vainio 1921, Gruezo 1979) = *Physma byrsaeum* (Afzel. ex Ach.) Tuck.

Physma byrsaeum var. *plumbeum* (Schaer.) Vain. (Vainio 1921, Gruezo 1979) = *Physma byrsaeum* (Afzel. ex Ach.) Tuck.

▲ ***Physma hypopsilum*** Vain. (Vainio 1921, Gruezo 1979)

Physma plicatum (Pers.) Hue (Vainio 1921, Gruezo 1979)

Physma pseudoisidiatum Aptroot & Sipman (Sipman et al. 2013)

▲ ***Physma radians*** Vain. (Vainio 1921, Gruezo 1979)

Piccolia elmeri (Vain.) Hafellner [as *Biatorella elmeri* Vain. (Vainio 1921, Gruezo 1979)]
Pilocarpon cinereonigricans Vain. (Vainio 1921) = *Byssoloma leucoblepharum* (Nyl.) Vain.
Pilocarpon discordans Vain. (Vainio 1921) = *Byssoloma discordans* (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)
Pilocarpon ectolechioides Vain. (Vainio 1921, Gruezo 1979) = *Byssoloma leucoblepharum* (Nyl.) Vain.
Pilocarpon subnebulosum Vain. (Vainio 1921) = *Byssoloma discordans* (Vain.) Zahlbr.
▲ *Placopsis isidiophora* Vain. (Vainio 1913, Gruezo 1979)
▲ *Placopsis papillosa* Vain. (Vainio 1913, Gruezo 1979)
Placynthium nigrum (Huds.) Gray (Aptroot & Sipman 1989)
Platismatia erosa W.L. Culb. & C.F. Culb. (Gruezo 1979)
Platismatia regenerans W.L. Culb. & C.F. Culb. (Elix & Schumm 2001)
Platygramme caesiopruinosa (Fée) Fée [Tabaquero et al. 2013, as *Phaeographina caesiopruinosa* (Fée) Müll. Arg.]
Podostictina flavicans (Hook f. & Taylor) Moncada & Lücking [as *Pseudocyphellaria flavicans* (Hook. f. & Taylor) Malme (Vainio 1913, Gruezo 1979)]
Polyblastia albida Arnold (Lucban & Paguirigan 2019)
▲ *Polyblastia manilensis* Vain. (Vainio 1921, Gruezo 1979)
▲ *Polyblastiopsis negrosensis* Herre (Gruezo 1979)
Polyblastidium dendriticum (Pers.) Kalb [as *Heterodermia dendritica* (Pers.) Poelt (Gruezo 1979)]
Polyblastidium hypocaesium (Yasuda ex Räsänen) Kalb [as *Heterodermia hypocaesia* (Yasuda ex Räsänen) D.D. Awasthi [as *Anaptychia hypocaesia* Yas. ex. Räsänen (Vainio 1913, Gruezo 1979)]
Polyblastidium hypoleucum (Ach.) Kalb [as *Heterodermia hypoleuca* (Muhl.) Trev. (Herre 1946, Gruezo 1979)]
Polychidium dendriscum (Nyl.) Henssen [as *Leptodendriscum byssoides* (Carring.) Vain. (Vainio 1921, Gruezo 1979)]
Polymeridium albocinereum (Kremp.) R.C. Harris (Aptroot & Lücking 2016) [as *Pseudopyrenula pentameria* Vain. (Vainio 1921, Gruezo 1979)]
Polymeridium glaucoatrum (Vain.) R.C. Harris (Aptroot & Lücking 2016) [as *Arthopyrenia glaucoatra* Vain. (Vainio 1923, Gruezo 1979)]
Polymeridium inspersum Aptroot (Aptroot & Lücking 2016)
Polymeridium jordanii (C.W. Dodge) Aptroot & Lücking (Aptroot & Lücking 2016)
Polymeridium quinquesepatum (Nyl.) R.C. Harris (Sipman et al. 2013, Aptroot & Lücking 2016)
Polymeridium siamense (Vain.) Aptroot (Aptroot & Lücking 2016) [as *Arthopyrenia obvelata* Vain. (Vainio 1923, Gruezo 1979)]
Polymeridium subcinereum (Nyl.) R.C. Harris (Aptroot & Lücking 2016)
Polymeridium submuriforme Aptroot (Aptroot & Lücking 2016)
▲ *Porina aciculosa* Vain. (Vainio 1921, Gruezo 1979)
▲ *Porina acuta* Vain. (Vainio 1921, Gruezo 1979)
Porina albicera (Kremp.) van Overeen de Haas (Vainio 1923, Gruezo 1979)
▲ *Porina applanata* Vain. (Vainio 1921, Gruezo 1979)
▲ *Porina arengae* (Vain.) (Vainio 1923)
▲ *Porina atriceps* (Vain.) Vain. [as *Porina epiphylla* var. *atriceps* Vain. (Vainio 1921, Gruezo 1979)]
▲ *Porina blumeana* Vain. (Vainio 1923)
Porina cerina (Zahlbr.) R. Sant. (Gruezo 1979)
Porina conica R. Sant. (Gruezo 1979)
Porina corruscans (Rehm) R. Sant. (Vainio 1923, Gruezo 1979)
Porina crenulata Vain. (Vainio 1923) = *Strigula concreta* (Fée) R. Sant.
▲ *Porina decamera* Vain. (Vainio 1921, Gruezo 1979)
▲ *Porina diplotypa* Vain. (Vainio 1921, Gruezo 1979)

Porina epiphylla (Fée) Fée (Vainio 1921, Gruezo 1979, Lücking 2008) [including var. *major* Vain. and var. *praestans* (Ny.) Vain. (Vainio 1921)]
Porina epiphylla var. *atriceps* Vain. (Vainio 1921, Gruezo 1979) = *Porina atriceps* (Vain.) Vain.
Porina epiphylla var. *major* Vain. (Vainio 1921) = *Porina epiphylla* (Fée) Fée
Porina epiphylla var. *praestans* (Nyl.) Vain. (Vainio 1921, Gruezo 1979) = *Porina epiphylla* (Fée) Fée
▲ ***Porina gigantospora*** Vain. (Vainio 1921, Gruezo 1979)
Porina hypothetica Vain. (Vainio 1921) = *Porina imitatrix* Müll. Arg.
Porina imitatrix Müll. Arg. (Vainio 1921, Gruezo 1979, Lücking 2008) [as *Porina hypothetica* Vain. (Vainio 1921)]
Porina insperata Müll. Arg. (Vainio 1921, Gruezo 1979)
Porina internigrans (Nyl.) Müll. Arg. (Sipman et al. 2013)
Porina limbulata (Kremp.) Vain. (Gruezo 1979)
Porina lucida R. Sant. (Gruezo 1979)
Porina mastoidea (Ach.) Müll. Arg. (Sipman et al. 2013)
Porina melanobasis (Vainio 1923) = *Strigula platypoda* (Müll. Arg.) R.C. Harris
▲ ***Porina misera*** (Vainio 1923)
Porina monocarpa (Kremp) Schilling (Gruezo 1979)
Porina multipunctata G. Merr ex R. Sant. (Gruezo 1979) = *Strigula multipunctata* (G. Merr ex R. Sant.) R.C. Harris
Porina multiseptata (Müll. Arg.) (Vainio 1921, Gruezo 1979)
Porina nitens Vain. (Vainio 1923) = *Strigula nitidula* Mont.
▲ ***Porina novemseptata*** Vain. (Vainio 1921, Gruezo 1979)
Porina nucula Ach. (Sipman et al. 2013)
Porina obducta (Müll. Arg.) Schilling (Vainio 1923, Gruezo 1979) = *Strigula obducta* (Müll. Arg.) R.C. Harris
▲ ***Porina perminuta*** Vain. (Gruezo 1979)
Porina phyllogena Müll. Arg. (Gruezo 1979) = *Strigula phyllogena* (Müll. Arg.) R.C. Harris
Porina platypoda Müll. Arg. (Vainio 1923, Gruezo 1979, Lücking 2008) = *Strigula platypoda* (Müll. Arg.) R.C. Harris
Porina polillensis Vain. (Vainio 1923) = *Strigula subtilissima* (Fée) Müll. Arg.
▲ ***Porina polymera*** Vain. (Vainio 1921, Gruezo 1979)
Porina rubentior (Stirt.) Müll. Arg. (Lücking 2008) [as *Phragmopelthea pulcherrima* L. Xavier (Lücking 2008), *Phragmopelthea pulcherrima* var. *octospora* L. Xavier (Lücking 2008), *Phragmopelthea pulcherrima* var. *pentaseptata* L. Xavier (Lücking 2008)]
Porina rufula (Kremp.) Vain. (Gruezo 1979, Aptroot & Sipman 1989, as *P. pseudofulvella* Sérus.) [as *Phylloporina rufula* var. *rhodoplaca* Müll. Arg. (Herre 1946)]
Porina rufula var. *rhodoplaca* (Müll. Arg.) Vain. (Vainio 1923, Gruezo 1979) = *Porina rufula*
Porina rufula var. *rubicolor* (Stirt.) Vain. (Vainio 1923, Gruezo 1979) = *Porina rufula*
▲ ***Porina sapotae*** Vain. (Vainio 1923)
▲ ***Porina semecarpi*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Porina sphaerocephala*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Porina sphalerospora*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Porina subdissipans*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Porina subtilior*** Vain. (Vainio 1923, Gruezo 1979)
Porina tristissima Vain. (Vainio 1923) = *Strigula obducta* (Müll. Arg.) R.C. Harris
Porina virescens (Kremp.) Müll. Arg. (Vainio 1921, Gruezo 1979)
▲ ***Porina viridinigricans*** Vain. (Vainio 1921, Gruezo 1979)
Porpidia albocaerulescens var. *polycarpiza* (Vain.) Rambold & Hertel [as *Lecidea polycarpiza* Vain. (Vainio 1921, Gruezo 1979)]
Pseudocyphellaria argyracea (Del) Vain. (Vainio 1913, Gruezo 1979)
Pseudocyphellaria argyracea var. *reveniens* Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria aurata (Ach.) Vain. (Vainio 1913, Herre 1946, Gruezo 1979) = *Crocodia aurata* (Ach.) Link

Pseudocyphellaria cinnamomea (Rich.) Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria crocata (L.) Vain. (Vainio 1921, Aptroot & Sipman 1989) [as *Sticta crocata* (L.) Ach (Herre 1946)]

Pseudocyphellaria dissimulata (Nyl.) Vain. (Vainio 1913) = *Pseudocyphellaria multifida* (Laurer) D.J. Galloway & P. James

Pseudocyphellaria dissimulata* var. *curranii Vain. (Gruezo 1913)

Pseudocyphellaria dissimulata* var. *hypophaea Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria dissimulata* var. *nudior Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria flavicans (Hook & Tayl.) Malme (Vainio 1913, Gruezo 1979) = *Podostictina flavicans* (Hook f. & Taylor) Moncada & Lucking

Pseudocyphellaria gilva (Ach.) Malme (Vainio 1913, Gruezo 1979)

▲ ***Pseudocyphellaria homalosticta*** Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria intricata (Delise) Vain.[as *Pseudocyphellaria intricata* var. *thouarsii* (Del.) Nyl. (Vainio 1913, Gruezo 1979)]

Pseudocyphellaria intricata var. *thouarsii* (Del.) Nyl. (Vainio 1913, Gruezo 1979) = *Pseudocyphellaria intricata* (Delise) Vain.

Pseudocyphellaria multifida (Laurer) D.J. Galloway & P. James [as *Pseudocyphellaria dissimulata* (Nyl.) Vain. (Vainio 1913), *Pseudocyphellaria subvariabilis* (Vainio 1913)]

▲ ***Pseudocyphellaria multipartita*** Vain. (Gruezo 1913)

▲ ***Pseudocyphellaria phaeorhiza*** Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria prolificans (Nyl.) Vain. (Vainio 1913)

Pseudocyphellaria punctillaris (Müll. Arg.) D.J. Galloway (Degelius 1964)

Pseudocyphellaria quercifolia (Tayl.) Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria subpunctulata (Nyl.) Vain. (Vainio 1913, Gruezo 1979)

Pseudocyphellaria subvariabilis (Vainio 1913) = *Pseudocyphellaria multifida* (Laurer) D.J. Galloway & P. James

Pseudocyphellaria tomentosa (Mey & Flot.) Vain. (Vainio 1913, Herre 1951, Gruezo 1979)

Pseudoparmelia adspersa (Vain.) Hale (Gruezo 1979) = *Parmotrema adspersum* (Vain.) Elix

Pseudoparmelia intertexta (Mont. & v.d. Bosch.) Hale (Gruezo 1979) = *Relicina intertexta* (Mont. & Bosch) Kirika, Divakar & Lumbsch

Pseudoparmelia malaccensis (Nyl.) Hale. (Gruezo 1979) = *Relicina malaccensis* (Nyl.) Kirika, Divakar & Lumbsch

Pseudopyrenula elmeri Vain. (Vainio 1921, Gruezo 1979) = *Astrothelium heterophorum* Nyl.

Pseudopyrenula pentameria Vain. (Vainio 1921, Gruezo 1979) = *Polymeridium albocinereum* (Kremp.) R.C. Harris

▲ ***Pseudopyrenula ramosii*** Vain. (Vainio 1921, Gruezo 1979) = *Myriotrema* spec. fide Aptroot & Lücking (2016)

Pseudopyrenula ubianensis Vain. (Vainio 1921, Gruezo 1979) = *Astrothelium ubianense* (Vain.) Aptroot & Lücking (Aptroot & Lücking 2016)

Pseudopyrenula subnudata Müll. Arg. (Aptroot & Lücking 2016)

Psilolechia lucida (Ach) (Domingo et al. 2015)

Psoroma sphinctrinum (Mont.) Nyl. (Vainio 1921, Gruezo 1979)

Psorotheciopsis patellarioides (Rehm) R. Sant. (Gruezo 1979)

▲ ***Psorotheciopsis philippinensis*** (Rehm) Lücking (Lücking 2008) [also as *Linhartia philippinensis* Rehm (Rehm 1914)]

Pyrenula aggregata (Fée) Fée [as *Pyrenula fuscoolivacea* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula apisteoides* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula alboostiolata Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula microcarpa* Müll. Arg.

▲ ***Pyrenula albothallina*** Vain. (Vainio 1921, Gruezo 1979, Aptroot 2012, Sipman et al. 2013)

Pyrenula anomala (Ach.) Vain. (Sipman et al. 2013) [as *Trypethelium anomalum* Ach. (Gruezo 1979), *Pyrenula anomaloides* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula anomaloides Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula anomala* (Ach.) Vain.

Pyrenula apayaoensis Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula aspistea* (Afzel. ex Ach.) Ach.

Pyrenula apisteoides Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula aggregata* (Fée) Fée

Pyrenula arthoniotheca Upreti [as *Pyrenula subdissidens* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)]

Pyrenula aspistea (Ach.) Ach. (Sipman et al. 2013) [as *Pyrenula apayaoensis* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula bilirana* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula guimarana* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula bilirana Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula aspistea* (Afzel. ex Ach.) Ach.

Pyrenula brunnea Fée [as *Pyrenula subgriseola* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula subgriseola* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula castânea (Eschw.) Müll. Arg. [as *Pyrenula limayensis* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula mamillana* var. *bataana* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula cinereovelata Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula mamillana* (Ach.) Trevis.

Pyrenula comirana Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula mamillana* (Ach.) Trevis.

Pyrenula confinis (Nyl.) R.C. Harris (Gruezo 1979, Vainio 1921, Sipman et al. 2013) [as *Bottaria confinis* (Nyl.) Vain. (Vainio 1921, Gruezo 1979) and *Bottaria connectens* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula caracasana Müll. Arg. [as *Pyrenula mangiferae* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula dermatodes (Borrer) Schaer. [as *Pyrenula porinella* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula stramineoatra* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula endocrocea Aptroot (Aptroot 2012)

Pyrenula fetivica (Kremp.) Müll [as *Pyrenula mastospora* Vain. fo. *evolutiorum* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula mastospora* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula glabriuscula* (Nyl.) Vain. (Vainio 1921, Gruezo 1979), *Pyrenula samarana* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula finitima Müll. Arg. (Sipman et al. 2013)

Pyrenula flavofulvescens Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula sexocularis* (Nyl.) Müll. Arg.

Pyrenula fuscoolivacea Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula aggregata* (Fée) Fée

▲ ***Pyrenula gibberulosa*** [as *Anthracotheceum gibberulosum* (Vain.) Zahlbr. and *Bottaria gibberulosa* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula glabriuscula (Nyl.) Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula fetivica* (Kremp.) Müll. Arg.

Pyrenula guimarana Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula aspistea* (Afzel. ex Ach.) Ach.

Pyrenula interducta (Nyl.) Zahlbr. (Sipman et al. 2013) [as *Arthonia interducta* Nyl. (Vainio 1921, Gruezo 1979)]

▲ ***Pyrenula irosina*** Vain. (Vainio 1921, Gruezo 1979, Aptroot 2012)

Pyrenula leucostoma Ach. (Sipman et al. 2013) [as *Anthracotheceum libricola* (Fée) Müll. Arg., *Anthracotheceum libricolum* (Fée) Müll. Arg. (Gruezo 1979, Vainio 1921), *Bottaria libricola* (Fée) Vain. (Vainio 1921), *Bottaria submucosa* Vain. (Vainio 1921, Gruezo 1979), *Bottaria endococcinea* Vain. (Vainio 1921, Gruezo 1979), *Bottaria erythrinae* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula leucotrypa (Nyl.) Upreti [as *Melanotheca negrosensis* Herre (Gruezo 1979)]

Pyrenula limayensis Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula castânea* (Eschw.) Müll. Arg.

Pyrenula mamillana (Ach.) Trevis. (Sipman et al. 2013) [as *Pyrenula marginata* Hook. (Vainio 1921, Gruezo 1979), *Pyrenula cinereovelata* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula comirana* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula philippina* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula subglabriuscula* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula mamillana var. *bataana* Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula castânea* (Eschw.) Müll. Arg.

Pyrenula mangiferae Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula caracasana* Müll. Arg.

Pyrenula marginata Hook. (Vainio 1921, Gruezo 1979) = *Pyrenula mamillana* (Ach.) Trevis

Pyrenula massariospora (Starb.) R.C. Harris (Sipman et al. 2013) [as *Pyrenula pachyspora* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula mastospora Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula fetivica* (Kremp.) Müll.

Pyrenula mastospora Vain. fo. *evolutiorum* Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula fetivica* (Kremp.) Müll.

Pyrenula microcarpa Müll. Arg. [as *Pyrenula albo-ostiolata* Vain (Vainio 1921, Gruezo 1979), *Pyrenula alboostiolata* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula ochraceoflava (Nyl.) R.C. Harris (Vainio 1921, Gruezo 1979, Sipman 2013) [as *Bottaria ochrotropa* (Nyl.) Vain. (Vainio 1921, Gruezo 1979), *Bottaria ochrotropa* (Nyl.) Vain. var. *cinnamomea* Räsänen (Gruezo 1979)]

Pyrenula quassiicola Fée [as *Pyrenula rizalensis* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula pallidofulvescens* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula pallidofulvescens* var. *fulvostraminea* Vain. (Vainio 1921, Gruezo 1979), *Pyrenula vanoverberghii* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula pachyspora Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula massariospora* (Starbäck) R.C. Harris

Pyrenula pallidofulvescens Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula quassiicola* Fée

Pyrenula pallidofulvescens var. *fulvostraminea* Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula quassiicola* Fée

Pyrenula papillifera (Nyl.) Aptroot [as *Bottaria albidopallens* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula parvinuclea (Meyen & Flot.) Aptroot [as *Anthracotheceium denudatum* (Nyl.) Müll. Arg. (Gruezo 1979), *Bottaria denudata* (Nyl.) Vain. (Vainio 1921), *Verrucaria parvinuclea* Mey. & Flot. (Gruezo 1979), *Bottaria subconnectens* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula philippina Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula mamillana* (Ach.) Trevis.

Pyrenula pileata Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula scutata* (Stirt.) Zahlbr.

Pyrenula polillensis Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula septicollaris* (Eschw.) R.C. Harris

Pyrenula porinella Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula dermatodes* (Borrer) Schaer.

Pyrenula quassiicola (Fée) Fée (Sipman et al. 2013)

Pyrenula rizalensis Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula quassiicola* Fée

Pyrenula samarana Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula fetivica* (Kremp.) Müll. Arg.

Pyrenula scutata (Stirt.) Zahlbr. [as *Pyrenula pileata* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula septicollaris (Eschw.) R.C. Harris [as *Pyrenula polillensis* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula sexlocularis (Nyl.) Müll. Arg. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Pyrenula flavofulvescens* Vain. (Vainio 1921, Gruezo 1979)]

Pyrenula stramineoatra Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula dermatodes* (Borrer) Schaer.

Pyrenula subdissidens Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) = *Pyrenula arthoniotheca* Upreti

Pyrenula subglabrata (Nyl.) Müll. Arg. (Sipman et al. 2013)

Pyrenula subglabriuscula Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula mamillana* (Ach.) Trevis.

Pyrenula subgriseola Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula brunnea* Fée

▲ ***Pyrenula tristissima*** Vain. (Vainio 1921, Gruezo 1979)

Pyrenula vanoverberghii Vain. (Vainio 1921, Gruezo 1979) = *Pyrenula quassiicola* Fée

Pyxine cocoas (Sw.) Nyl. Herre, AC (Gruezo 1979, Bawingan et al. 2014, Lucban & Paguirigan 2019)

▲ ***Pyxine consocians*** (Vainio 1913, Gruezo 1979) [as *Pyxine retirugella* Nyl. (Gruezo 1979)]

▲ ***Pyxine copelandii*** Vain. (Vainio 1913, Gruezo 1979)

Pyxine cylindrica Kashiw. (Paguirigan et al. 2019)
Pyxine dissecta (Fée) Vain. (Vainio 1913, Gruezo 1979)
Pyxine endochrysoidea (Nyl.) Degel. (Gruezo 1979) = *Pyxine sorediata* (Ach.) Mont.
Pyxine endoleuca (Müll. Arg.) Vain. (Vainio 1913, Gruezo 1979) = *Pyxine petricola* Nyl.
Pyxine farinosa Kashiw. (Aptroot & Sipman 1989, as *P. linearis* R.W. Rogers)
▲ *Pyxine glaucescens* Vain. (Vainio 1913, Gruezo 1979)
Pyxine keralensis D.D. Awasthi (Paguirigan et al. 2019)
Pyxine meissnerina Nyl. (Sipman et al. 2013)
Pyxine microspora Vain. (Vainio 1913, Gruezo 1979) = *Pyxine pyxinoides* (Müll. Arg.) Kalb.
Pyxine petricola Nyl. [as *Pyxine endoleuca* (Müll. Arg.) Vain. (Vainio 1913, Gruezo 1979)]
▲ *Pyxine philippina* Vain. (Vainio 1913, Gruezo 1979, Paguirigan et al. 2019)
Pyxine pyxinoides (Müll. Arg.) Kalb. [as *Pyxine microspora* Vain. (Vainio 1913, Gruezo 1979)]
Pyxine retirugella Nyl. (Gruezo 1979) = *Pyxine consocians* Vain.
Pyxine retigurella var. *capitata* Zahlbr. (Gruezo 1979)
Pyxine sorediata (Ach.) Mont. (Herre 1946, Gruezo 1979) [as *Pyxine endochrysoidea* (Nyl.) Degel. (Gruezo 1979)]
Raciborskiella janeirensis (Müll. Arg.) R. Sant. (Gruezo 1979) = *Strigula janeirensis* (Müll. Arg.) Lücking
Raciborskiella prasina (Müll. Arg.) R. Sant. (Vainio 1923, Gruezo 1979) = *Strigula prasina* (Müll. Arg.)
Ramalina celastri subsp. *celastri* (Spreng) Krog & Swinscow [as *Ramalina linearis* (Sw.) Ach. (Vainio 1909, Gruezo 1979)]
Ramalina dendriscoides Nyl. (Herre 1951, Gruezo 1979, Santiago et al. 2010)
Ramalina farinacea (L.) Ach. (Herre 1951, Santos et al. 1964, Gazo et al. 2019)
Ramalina gracilentata var. *torulosa* Nyl. (Vainio 1909, Herre 1951, Gruezo 1979) [as *Ramalina furcellata* var. *torulosa* (Nyl.) (Herre 1946)]
Ramalina linearis (Sw.) Ach. (Vainio 1909, Gruezo 1979) = *Ramalina celastri* subsp. *celastri* (Spreng) Krog & Swinscow
Ramalina nervulosa (Müll. Arg.) Abbayes (Gazo et al. 2019)
Ramalina pacifica Asahina (Gruezo 1979)
Ramalina pollinaria (Westr.) Ach.
Ramalina pollinaria var. *insularis* Vain. (Vainio 1909, Gruezo 1979)
Ramalina roesleri (Hochst. ex Schaer.) Nyl. (Gazo et al. 2019)
Ramalina subfraxinea Nyl. (Vainio 1909, Gruezo 1979)
Ramalina vittata Nyl. (Vainio 1909, Herre 1946, Gruezo 1979)
Ramonia microspora Vězda (Sipman et al. 2013)
Relicina abstrusa (Vain.) Hale (Gruezo 1979, Sipman et al. 2013, Bawingan et al. 2019)
Relicina amphithrix Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina circumnodata (Nyl.) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina connivens (Kurok.) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina dentata Elix (Bawingan et al. 2019)
Relicina intertexta (Mont. & Bosch) Kirika, Divakar & Lumbsch [as *Pseudoparmelia intertexta* (Mont. & Bosch) Hale (Gruezo 1979)]
Relicina malaccensis (Nyl.) Kirika, Divakar & Lumbsch [as *Pseudoparmelia malaccensis* (Nyl.) Hale (Gruezo 1979)]
Relicina malesiana (Hale) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina palmata Elix (Bawingan et al. 2019)
Relicina planiuscula (Kurok.) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina precircumnodata Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina ramossissima (Kurok.) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina relicina (Müll. Arg.) Hale (Herre 1946, Gruezo 1979, Bawingan et al. 2019) [as *Parmelia relicina* (E. Fries) (Herre 1946)]

Relicina samoensis (Zahlbr.) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina schizospatha (Kurok.) Hale (Gruezo 1979, Bawingan et al. 2019)
Relicina subabstrusa (Gyelnik) Hale (Gruezo 1979, Sipman et al. 2013, Bawingan et al. 2019)
Relicina sublanea (Kurok.) Hale (Gruezo 1979, Bawingan et al. 2019)
Remototrachyna costaricensis (Nyl.) Divakar, Lumbsch, Ferencová, Prado & A. Crespo [as *Hypotrachyna costaricensis* (Nyl.) Hale (Gruezo 1979)]
Rhabdodiscus crassus (Müll. Arg.) Frisch [as *Stegobolus crassus* (Müll. Arg.) A. Frisch (Sipman et al. 2013)]
▲ *Rhabdodiscus marivelensis* (Vain.) Rivas Plata, Lücking & Lumbsch [as *Thelotrema marivelense* Vain. (Vainio 1921, Gruezo 1979), *Ocellularia marivelensis* (Vain.) Hale (Sipman et al. 2013)]
Rhipidonema irpicinum (Mont.) Sacc. (Vainio 1923, Gruezo 1979) = *Dictyonema irpicinum* Mont.
Rhipidonema irpicinum var. *scabridum* Vain. (Vainio 1923) = *Dictyonema scabridum* (Vain.) Lücking
Rhipidonema membranaceum (Ag.) Sacc. (Gruezo (1979, Vainio 1923)
Rhipidonema phyllogenum (Müll. Arg.) Vain. (Vainio 1923) = *Cyphellostereum phyllogenum* (Müll. Arg.) Lücking, Dal Forno & Lawrey
▲ *Rinodina bontokensis* Herre (Herre 1951, Gruezo 1979)
▲ *Rinodina luzonensis* Herre (Gruezo 1979)
Rinodina oleae Bagl. (Bawingan et al. 2014)
Rinodina oxydata (A. Massal.) A. Massal. (Sipman et al. 2013)
Rinodina xanthomelana Müll. Arg. (Sipman et al. 2013)
Rocella montagnei Belanger (Herre 1951)
Rolueckia conspersa (Stirt.) Paping, Thammath 7 Boonpr. [as *Calenia conspersa* (Stirt.) R. Sant. (Vainio 1921, Gruezo 1979), *Asterothyrium naevium* Vain. (Vainio 1921)]
Sanguinotrema wightii (Taylor) Lücking [as *Leptotrema wightii* (Taylor) Müll. Arg. (Sipman et al. 2013)]
Sarcographa concisa (Kremp.) Zahlbr. (Gruezo 1979)
Sarcographa dendroides (Leight.) Luch & Lücking (Tabaquero et al. 2013, Gruezo 1979, Vainio 1921) [as *Phaeographis dendroides* (Leight.) Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)]
Sarcographa difformis (Vain) Zahlbr. (Vainio 1921, Gruezo 1979, Tabaquero et al. 2013)
Sarcographa elmeri (Vain.) Sipman [as *Thelotrema elmeri* Vain. (Vainio 1921, Gruezo 1979)]
Sarcographa fenicis (Vain.) Zahlbr. [as *Graphis fenicis* Vain. (Vainio 1921, Gruezo 1979)]
Sarcographa heteroclita (Mont.) Zahlbr. (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Graphis heteroclita* (Mont.) Vain. (Vainio 1921), *Glyphis heteroclita* var. *orbicularis* Mont. (Gruezo 1979)]
Sarcographa impressopunctata (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979)
Sarcographa intricans (Nyl.) Müll. Arg. [as *Phaeographis intricans* (Nyl.) Staiger (Tabaquero et al. 2013)]
Sarcographa kirtoniana (Müll. Arg.) Müll. Arg. (Tabaquero et al. 2013)
Sarcographa labyrinthica (Ach.) Müll. Arg. (Gruezo 1979, Sipman et al. 2013) [as *Graphis labyrinthica* (Ach.) Vain. (Vainio 1921), *Graphis labyrinthica* var. *quatuorseptata* Vain. (Vainio 1921)]
Sarcographa leprieurii (Mont.) Zahlbr (Herre 1946) = *Phaeographis leprieurii* (Mont.) Staiger
Sarcographa ramosoconnexa (Vain.) Redinger (Vainio 1921, Gruezo 1979, Sipman et al. 2013) [as *Graphis ramosoconnexa* Vain. (Vainio 1921)]
Sarcographa subtriosa (Leight.) Müll. Arg. (Tabaquero et al. 2013) = *Sarcographa subtriosa* var. *subtriosa* (Leight.) Müll. Arg.
Sarcographa subtriosa var. **subtriosa** (Leight.) Müll. Arg. [as *Sarcographa subtriosa* (Leight.) Müll. Arg. (Tabaquero et al. 2013)]
Sarcographa verrucosa (Vain.) Zahlbr. [as *Graphis verrucosa* Vain. (Vainio 1921, Gruezo 1979)]

Sarcographina glyphiza (Nyl.) Kr. P. Singh & D.D. Awasthi (Tabaquero et al. 2013)
Schismatomma decolorans (Erichsen) Clauzade & Vězda (Lucban & Paguirigan 2019)
Sclerophyton seriale (Ach.) Sparrius (Sparrius 2004)
 ▲ *Semigyalecta paradoxa* Vain. (Vainio 1921, Gruezo 1979) [as *Bacidia leptocarpa* Vain. (Vainio 1921)]
Septotrapelia triseptata (Hepp) Aptroot (Sipman et al. 2013) [as *Bacidia triseptata* (Hepp) Zahlbr. (Gruezo 1979)]
Sphaerophorus compressus Ach. (Vainio 1921, Gruezo 1979) = *Bunodophoron melanocarpum* (Sw.) Wedin
Sphaerophorus compressus var. *subaustralis* Vain. (Vainio 1921, Gruezo 1979)
Sphaerophorus diplotypus Vain. (Vainio 1921, Gruezo 1979) = *Bunodophoron diplotupum* (Vain.) Wedin
Sphaerophorus madagascareus (Nyl.) Vain. (Vainio 1921, Gruezo 1979)
Sporopodium argillaceum (Müll. Arg.) Zahlbr. (Vainio 1921, Gruezo 1979)
Sporopodium duplicatum Vain. (Vainio 1921) = *Calopadia phyllogena* (Müll. Arg.) Vězda
Sporopodium fulgurans Vain. (Vainio 1921) = *Loflammia epiphylla* (Fée) Lücking & Vězda
Sporopodium leprieurii Mont. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)
 ▲ *Sporopodium leprieurii* var. *concrustans* Vain. (Vainio 1921)
 ▲ *Sporopodium leprieurii* var. *maculosa* Vain. (Vainio 1921)
Sporopodium leucoxanthoides var. *epiphaeoides* Vain. (Vainio 1921, Gruezo 1979) = *Brigantiaea pulchra* (Müll. Arg.) Hafellner
Sporopodium leucoxanthoides var. *ochraceopruinosa* Vain. (Vainio 1921, Gruezo 1979) = *Brigantiaea pulchra* (Müll. Arg.) Hafellner
Sporopodium ochrolechioides Vain. (Vainio 1921, Gruezo 1979) = *Brigantiaea leucoxantha* (Spreng.) R. Sant. & Hafellner
Sporopodium phycophilum Vain. (Vainio 1921) = *Lasioloma phycophilum* (Vain.) R. Sant.
Sporopodium phycophorum Vain. (Vainio 1921) = *Lasioloma phycophorum* (Vain.) R. Sant.
Sporopodium phyllocharis (Mont.) Mass. (Vainio 1921, Gruezo 1979)
Sporopodium pilosellum Vain. (Vainio 1921) = *Sporopodium xantholeucum* (Müll. Arg.) Zahlbr.
Sporopodium tayabasense var. *divergescens* Vain. (Vainio 1921) = *Calopadiopsis tayabasensis* (Vain.) Lücking & R. Sant.
Sporopodium tayabasense var. *lividescens* Vain. (Vainio 1921) = *Calopadiopsis tayabasensis* (Vain.) Lücking & R. Sant.
Sporopodium tricophorum Vain. (Vainio 1921) = *Lasioloma trichophorum* (Vain.) R. Sant.
Sporopodium vermiculiferum Vain. (Vainio 1921) = *Calopadia vermiculifera* (Vain.) Sérus. (Vainio 1921, Gruezo 1979)
Sporopodium vulpinum var. *ochrothallinum* Vain. (Vainio 1921, Gruezo 1979) = *Letrouitia vulpina* (Tuck.) Hafellner & Bellem.
Sporopodium vulpinum var. *subglaucescens* (Nyl.) Vain. (Vainio 1921, Gruezo 1979) = *Letrouitia vulpina* (Tuck.) Hafellner & Bellem.
Sporopodium xantholeucum (Müll. Arg.) Zahlbr. (Vainio 1921, Gruezo 1979) [as *Sporopodium pilosellum* Vain. (Vainio 1921)]
Stegobolus berkeleyanus Mont. (Sipman 2010) [also as *Ocellularia berleyana* (Mont.) Hale (Herre 1946, Sipman et al. 2013, Bawingan et al. 2014)]
Stegobolus crassus (Müll. Arg.) A. Frisch (Sipman et al. 2013) = *Rhabdodiscus crassus* (Müll. Arg.) Frisch
 ▲ *Stegobolus polillensis* (Vain.) Frisch [as *Thelotrema polillense* Vain. (Vainio 1921, Gruezo 1979)]
Stereocaulon arbuscula Nyl. (Vainio 1909) = *Lepraria arbuscula* (Nyl.) Lendemer & B.P. Hodk.
Stereocaulon graminosum Schaer. (Vainio 1909, Gruezo 1979)
Stereocaulon massartianum Hue (Gruezo 1979, Santiago et al. 2010)
Stereocaulon massartianum var. *chlorocarpoides* (Zahlbr.) M. Lamb (Gruezo 1979)

Stereocaulon massartianum var. *massartianum* (Vainio 1909, Gruezo 1979)
▲ *Stereocaulon philippinense* Räsänen (Gruezo 1979)
Stereocaulon proximum Nyl. (Gruezo 1979) = *Stereocaulon ramulosum* Raesch
Stereocaulon ramulosum Raesch, (ADE 1946, Gruezo 1979) [as *Stereocaulon proximum* Nyl. (Gruezo 1979)]
Stereocaulon sorediiferum Hue (Gruezo 1979)
Sticta ambavillaria (Bory) Del. (Vainio 1913, Gruezo 1979)
Sticta argyracea var. *aspera* (Laur.) Kremp. (Herre 1946)
Sticta aspera Laur. (Gruezo 1979)
Sticta aurata (Ach.) (Herre 1946) = *Pseudocyphellaria aurata* (Ach.) Vain.
Sticta boschiana Mont. (Vainio 1913, Gruezo 1979)
Sticta caperata (Nyl.) Nyl. (Vainio 1913, Gruezo 1979)
▲ *Sticta copelandii* Vain. (Vainio 1913, Gruezo 1979)
Sticta crocata (L.) Ach (Herre 1946) = *Pseudocyphellaria crocata* (L.) Vain.
Sticta damicornis (Sw.) Ach. (Herre 1951, Gruezo 1979)
Sticta dendroides (Nyl.) Moncada, Lücking & de Lange [as *Dendroscocaulon dendroides* (Nyl.) R. Sant. (Vainio 1921, Gruezo 1979)]
Sticta elmeri Zahlbr. (Gruezo 1979)
Sticta fimbriata Schaer. (Vainio 1913, Gruezo 1979)
Sticta fuliginosa (Dicks.) Ach. (Aptroot & Sipman 1989)
▲ *Sticta lingulata* Vain. (Vainio 1913, Gruezo 1979)
▲ *Sticta manilensis* Vain. (Vainio 1913, Gruezo 1979)
Sticta marginifera Mont. (Vainio 1913, Gruezo 1979)
Sticta orbicularis var. *pallescens* Vain. (Vainio 1913, Gruezo 1979)
Sticta pluriseptata Vain. (Vainio 1913, Gruezo 1979)
Sticta pulvinata (Mey & Flot) Vain. (Vainio 1913, Gruezo 1979)
Sticta recedens (Müll. Arg.) Vain. (Vainio 1913, Gruezo 1979)
* *Sticta richardi* var. *impressa* Mey. & Flot. (Gruezo 1979)
Sticta richardi var. *pallida* Mey. & Flot. (Gruezo 1979)
Sticta sinuosa Persoon (Herre 1946, Gruezo 1979)
Sticta tomentosa (Sw.) Ach. (Herre 1951, Gruezo 1979)
▲ *Sticta trichophora* (Vainio 1913, Gruezo 1979)
Sticta variabilis Ach. var. *polychista* Mey & Flot. (Gruezo 1979)
Stigmatochroma adaucta (Malme) Marbach [as *Buellia pithecelobii* Vain. var. *reagens* Räsänen (Gruezo 1979)]
Stirtonia macrocephala R. Sant. (Gruezo 1979) = *Eremothecella macrocephala* (R. Sant.) G. Thor, Sérus., Lücking & Tat. Matsumoto
Strigula africana var. *crenulata* (Vainio 1923) = *Strigula smaragdula* Fr.
Strigula africana var. *vegetior* (Vainio 1923) = *Strigula subelegans* Vain.
Strigula antillarum (Fée) Müll. Arg. [as *Strigula elegans* var. *antillarum* (Fée) R. Sant. (Gruezo 1979)]
Strigula astroidiza Vain. (Vainio 1923) = *Strigula nemathora* Mont.
Strigula atrocarpoides (Vainio 1923) = *Strigula nitidula* Mont.
Strigula atrocarpoides var. *fumigata* Vain. (Vainio 1923) = *Strigula nitidula* Mont.
Strigula complanata (Fée) Nyl. (Ramos, M. 1921, Gruezo 1979) = *Strigula orbicularis* Fr.
Strigula concreta (Fée) R. Sant. (Vainio 1923, Gruezo 1979, Lücking 2008) [as *Strigula sulcata* (Vainio 1923)]
Strigula dispersa (Vainio 1923) = *Strigula prasina* Müll. Arg.
Strigula donacis (Vainio 1923) = *Strigula nemathora* fo. *hypothelia* (Nyl.) Lücking
Strigula elegans (Fée) Müll. Arg. (Vainio 1923, Gruezo 1979) = *Strigula smaragdula* Fr.
Strigula elegans var. *antillarum* (Fée) R. Sant. (Gruezo 1979) = *Strigula antillarum* (Fée) Müll. Arg.

Strigula elegantior Vain. (Vainio 1923, Gruezo 1979) = *Strigula subelegans* Vain.
Strigula gibbosa (Vainio 1923) = *Strigula smaragdula* Fr.
Strigula janeirensis (Müll. Arg.) Lücking [as *Raciborskiella janeirensis* (Müll. Arg.) R. Sant. (Gruezo 1979)]
Strigula lacinulata Vain. (Vainio 1923) = *Strigula orbicularis* Fr.
Strigula linearis Vain. (Vainio 1923) = *Strigula melanobapha* (Kremp.) R. Sant.
▲*Strigula macrocarpa* Vain. (Vainio 1923, Gruezo 1979, Lücking 2008) [as *Strigula obvelata* Vain. (Vainio 1923)]
Strigula maculata (Cooke & Massee) R. Sant. (Vainio 1923, Gruezo 1979, Sipman et al. 2013, Lücking 2008) [also as *Heterodothis leptotheca* Syd. (Santesson 1952)]
Strigula melanobapha (Krempelh.) R. Sant. (Vainio 1923, Gruezo 1979, Sipman et al. 2013, Lücking 2008) [as *Strigula linearis* Vain. (Vainio 1923)]
Strigula multipunctata (G. Merr ex R. Sant.) R.C. Harris [as *Porina multipunctata* G. Merr ex R. Sant. (Gruezo 1979)]
Strigula nemathora Mont. (Vainio 1923, Gruezo 1979, Lücking 2008) [as *Strigula nigrocincta* Müll. Arg. (Vainio 1923, Gruezo 1979), *Strigula astroidiza* Vain. (Vainio 1923)]
Strigula nemathora fo. ***hypothelia*** (Nyl.) R. Sant. (Vainio 1923, Gruezo 1979, Lücking 2008), *Strigula donacis* (Vainio 1923)]
Strigula nigrocincta Müll. Arg. (Vainio 1923, Gruezo 1979) = *Strigula nemathora* Mont.
Strigula nitidula Mont. (Vainio 1923, Gruezo 1979, Lücking) [also as *Melanopsamma nitens* var. *talaumae* Rehm (Rehm 1914) and *Porina nitens* Vain. (Vainio 1923), *Strigula atrocarpoides* var. *fumigata* Vain. (Vainio 1923), *Strigula atrocarpoides* (Vainio 1923)]
Strigula obducta (Müll. Arg.) R.C. Harris (Lücking 2008) [as *Porina obducta* (Müll. Arg.) Schilling (Vainio 1923, Gruezo 1979), *Porina tristissima* Vain. (Vainio 1923)]
Strigula obvelata Vain. (Vainio 1923) = *Strigula macrocarpa* Vain.
Strigula orbicularis Fr. (Lücking 2008) [as *Strigula complanata* (Fée) Nyl. (Ramos, M. 1921, Gruezo 1979), *Strigula lacinulata* Vain. (Vainio 1923)]
Strigula philippina Vain. (Vainio 1923) = *Strigula smaragdula* Fr.
Strigula phyllogena (Müll. Arg.) R.C. Harris [as *Porina phyllogena* Müll. Arg. (Gruezo 1979)]
Strigula platypoda (Müll. Arg.) R.C. Harris [as *Porina platypoda* Müll. Arg. and *Porina melanobasis* Vain. (Vainio 1923, Gruezo 1979, Lücking 2008)]
Strigula prasina Müll. Arg. (Sipman et al. 2013, Lücking 2008) [as *Raciborskiella prasina* (Müll. Arg.) R. Sant. (Vainio 1923, Gruezo 1979), *Strigula dispersa* (Vainio 1923)]
Strigula smaragdula Fr. (Vainio 1923, Gruezo 1979, Sipman et al. 2013, Lücking 2008) [as *Strigula elegans* (Fée) Müll. Arg. (Vainio 1923, Gruezo 1979), *Strigula philippina* Vain. (Vainio 1923), *Strigula gibbosa* (Vainio 1923), *Strigula africana* var. *crenulata* (Vainio 1923)]
▲*Strigula subelegans* Vain. (Vainio 1923, Gruezo 1979, Sipman et al. 2013, Lücking 2008) [as *Strigula elegantior* Vain. (Vainio 1923, Gruezo 1979), *Strigula africana* var. *vegetior* (Vainio 1923)]
Strigula subtilissima (Fée) Müll. Arg. (Vainio 1923, Gruezo 1979, Lücking 2008) [as *Porina polillensis* Vain. (Vainio 1923)]
Strigula sulcata (Vainio 1923) = *Strigula concreta* (Fée) R. Sant.
Strigula wilsonii (Riddle) R.C. Harris (Sipman et al. 2013)
Sulzbacheromyces sinensis (R.H. Petersen & M. Zang) D. Liu & Li S. Wang (Liu et al. 2019)
Tapellaria bilimboides R. Sant. (Gruezo 1979, Sipman et al. 2013)
Tephromela atra var. ***atra*** (Huds.) Hafellner [as *Lecanora atra* (Huds.) Ach. (Vainio 1913, Gruezo 1979)]
Tephromela cerasina (Müll. Arg.) Rambold & Triebel (Sipman et al. 2013)
Thalloloma anguinaeforme (Vain.) Staiger (Tabaquero et al. 2013)
Thalloloma janeirensense Staiger (Tabaquero et al. 2013)
▲*Thalloloma nitidum* S. Joshi, Upreti & Hur (Joshi et al. 2018)
Thecaria quassiicola Fée (Tabaquero et al. 2013, Sipman et al. 2013, Bawingan et al. 2014) [as

Graphis quassiaecola (Fée) Vain. (Vainio 1921)]
Thecaria montagnei (Bosch) Staiger (Sipman et al. 2013)
Thelenella cinereoglauca Vain. (Vainio 1921, Gruezo 1979) = *Astrothelium meristosporum* (Mont. & Bosch) Aptroot & Lücking
▲ ***Thelenella endochrysoides*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Thelenella luzonensis*** Räs. (Gruezo 1979)
▲ ***Thelenella philippina*** Räs. (Gruezo 1979)
Thelenella verruculosa Vain. (Vainio 1921, Gruezo 1979) = *Aspidothelium verruculosum* R.Sant
▲ ***Thelidiopsis robinsonii*** Vain. (Vainio 1921, Gruezo 1979)
Thelidium decipiens (Hepp) Kremp. (Lucban & Paguirigan 2019)
Thelotrema adjectum Nyl. (Fajardo & Bawingan 2019)
Thelotrema apayoense Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia apayoensis* (Vain.) Zahlbr.
Thelotrema bataanum Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia bataana* (Vain.) Zahlbr.
▲ ***Thelotrema biliranum*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema brasiliensis (Bawingan et al. 2014)
▲ ***Thelotrema butuanum*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema chrysostroma Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia cavata* (Ach.) Müll.Arg.
Thelotrema cinereoglauescens Vain. (Vainio 1921, Gruezo 1979) = *Myriotrema cinereoglauescens* (Vain.) Hale
Thelotrema concolor (Mey. & Flot.) Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia concolor* Meyen & Flot.
Thelotrema confluens Vain. (Vainio 1921, Gruezo 1979) = *Chapsa leprieurii* (Mont.) Frisch
Thelotrema curranii Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia curranii* (Vain.) Kraichak, Lücking & Lumbsch
Thelotrema defossum (Müll. Arg.) Mangold [as *Ocellularia defossa* Müll. Arg. (Gruezo 1979, Bawingan et al. 2014)]
Thelotrema elmeri Vain. (Vainio 1921, Gruezo 1979) = *Sarcographa elmeri* (Vain.) Sipman
Thelotrema emergens Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia emergens* (Vain.) Zahlbr.
* ***Thelotrema fallax*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema fissiporum Hale (Gruezo 1979)
Thelotrema grande Hale. (Gruezo 1979) = *Ocellularia grandis* (Hale) Hale
Thelotrema homothecium Vain. (Vainio 1921, Gruezo 1979) = *Thelotrema porinoides* Mont. & Bosch
▲ ***Thelotrema irosinum*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Thelotrema isidiosum*** S. Joshi, Upreti & Hur (Joshi et al. 2018)
Thelotrema lepadinoides Leight. var. ***glaucoidea*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Thelotrema leucocheilum*** Vain. (Vainio 1921, Gruezo 1979)
▲ ***Thelotrema marginans*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema marivelense Vain. (Vainio 1921, Gruezo 1979) = *Rhabdodiscus marivelensis* (Vain.) Rivas Plata, Lücking & Lumbsch
▲ ***Thelotrema megasporum*** S. Joshi, Upreti & Hur (Joshi et al. 2018)
Thelotrema monobactrium (Nyl.) Vain. Gruezo (1979)
Thelotrema monobactrium var. ***endoleucum*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema monobactrium var. ***endorhodum*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema monobactrium var. ***geminiparum*** Vain. (Vainio 1921, Gruezo 1979)
Thelotrema oculatum Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia oculata* (Vain.) Rivas Plata, Lücking & Lumbsch
Thelotrema phaeospermoides Vain. (Vainio 1921, Gruezo 1979) = *Phaeotrema phaeospermoides* (Vain.) Zahlbr.
Thelotrema phaeosporum Nyl. (Vainio 1921, Gruezo 1979) = *Leucodecton phaeosporum* (Nyl.) Rivas Plata & Lücking
▲ ***Thelotrema philippinum*** Rivas Plata, Sipman & Lücking (Rivas Plata et al. 2014)

Thelotrema polillense Vain. (Vainio 1921, Gruezo 1979) = *Stegobolus polillensis* (Vain.) Frisch
Thelotrema porinoides Mont.& Bosch (Vainio 1921, Gruezo 1979) [as *Thelotrema homothecium* Vain. (Vainio 1921, Gruezo 1979)]
Thelotrema samaranum Vain. (Vainio 1921, Gruezo 1979) = *Leucodecton samaranum* (Nyl.) Mangold
▲ *Thelotrema scabrosum* Hale. (Gruezo 1979)
Thelotrema stictinum Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia stictita* (Hale) Hale
Thelotrema stramineum Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia straminea* (Vain.) Hale
Thelotrema terebratum Ach. var. *abbreviatum* Vain. (Vainio 1921, Gruezo 1979) = *Ocellularia terebrata* (Ach.) Müll. Arg.
▲ *Thelotrema vesiculiferum* Vain. (Vainio 1921, Gruezo 1979)
▲ *Thelotrema zamboangense* Vain. (Vainio 1921, Gruezo 1979)
Tomasellia queenslandica Müll.-Arg. (Gruezo 1979) = *Anisomeridium terminatum* (Nyl.) R.C. Harris
Toninia marivelensis Vain. (Vainio 1921, Gruezo 1979) = *Eschatogonia marivelensis* (Vain.) Kalb
Toninia robinsonii Vain. (Vainio 1921) = *Bacidia robinsonii* (Vain.) M. Lamb (Gruezo 1979)
Trapelia involuta (Taylor) Hertel (Aptroot & Sipman 1989)
Tricharia helminthospora R. Sant. (Gruezo 1979)
Tricharia melanothrix Fée. (Vainio 1921)
Tricharia santessoniana Kalb & Vězda (Lücking 2008)
Tricharia vainioi R. Sant. (Gruezo 1979, Lücking 2008)
Trichothelium akeassii U. Becker & Lücking [as *Trichothelium epiphyllum* Müll.Arg. (Gruezo 1979)]
▲ *Trichothelium alboatrum* Vain. (Vainio 1921, Gruezo 1979, Lücking 2008)
Trichothelium annulatum R. Sant. (Vainio 1921, Gruezo 1979, Lücking 2008) [also as *Trichothelium philippinum* Vain. (Vainio 1921)]
Trichothelium epiphyllum Müll.Arg. (Gruezo 1979) = *Trichothelium akeassii* U. Becker & Lücking
Trichothelium philippinum Vain. (Vainio 1921) = *Trichothelium annulatum* R. Sant.
Trypethelium aeneum (Bawingan et al. 2014) = *Astrothelium aeneum* (Eschw.) Aptroot & Lücking
Trypethelium anomalum Ach. (Gruezo 1979) = *Pyrenula anomala* (Ach.) Vain
Trypethelium areolatum Mont. (Herre 1946) = *Trypethelium eluteriae* Spreng.
Trypethelium cumingii Mont. (Gruezo 1979) = *Marcelaria cumingii* (Mont.) Aptroot, Nelsen & Parnmen
Trypethelium elmeri (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Astrothelium hetrophorum* Nyl.
Trypethelium eluteriae Spreng. (Gruezo 1979, Aptroot & Lücking 2016) [as *Trypethelium sprengelii* Ach. (Gruezo 1979), *Trypethelium areolatum* Mont. (Herre 1946)]
Trypethelium epileucodes Nyl. (Aptroot & Lücking 2016)
Trypethelium subeluteriae Makhija & Patw. (Aptroot & Lücking 2016)
Trypethelium sprengelii Ach. (Gruezo 1979) = *Trypethelium eluteriae* Spreng.
Trypethelium tropicum (Ach.) Müll. Arg. (Sipman et al. 2013) = *Nigrovothelium tropicum* (Ach.) Lücking, M.P. Nelsen & Aptroot
Trypethelium ubianense (Vain.) Zahlbr. (Vainio 1921, Gruezo 1979) = *Astrothelium ubianense* (Vain.) Aptroot & Lücking
Tylophoron protrudens Nyl. (Sipman et al. 2013)
Usnea aciculifera Vain (Timbreza et al. 2017, Galinato et al. 2018)
Usnea amabilis Motyka (Timbreza et al. 2017, Galinato et al. 2018)
Usnea articulata (L.) Hoffm. (Santiago et al. 2013) [as *U. haumanii* Motyka (Santiago et al. 2013, 2018, Azuelo & Puno 2018)]
Usnea australis J.D. Zhao, L.W. Hsu & Z.M. Sun (Galinato et al. 2018)
Usnea australis Fr. fo. *subinermis* Vain. (Vainio 1909, Gruezo 1979)
Usnea baileyi (Stirt.) Zahlbr. (Santiago et al. 2010, Sipman et al. 2013, Galinato et al. 2018) [as *U. implicita* (Gruezo 1979), as *U. insignis* (Gruezo 1979, Galinato et al. 2018) (Vainio 1909,

Gruezo 1979 [as *Usnea baileyi* (Stirt.) Zahlbr. subsp. *baileyi* and subsp. *chrysopora* (Vainio 1909, Gruezo 1979), as *Eumitria endochroa* var. *farinosa* Vain., as *Eumitria endochroa* var. *papillata* Vain. (Vainio 1909)]

Usnea baileyi (Stirt.) Zahlbr. subsp. *chrysopora* (Stein.) Asah. (Gruezo 1979) = *Usnea baileyi* (Stirt.) Zahlbr.

Usnea barbata (L.) F.H. Wigg (Santiago et al. 2013, 2018) [as *U. scabrata* Nyl. (Galinato et al. 2018)]

Usnea bismolliuscula Zahlbr. (Galinato et al. 2018)

Usnea cavernosa Tuck. (Santiago et al. 2013, Galinato et al. 2018)

Usnea ceratina Ach. (Santiago et al. 2013, Galinato et al. 2018) [as *U. florida* var. *subcomosa* [‘submucosa’] (Vain.) Vainio (Vainio 1909, Gruezo 1979), as *U. roseola* Vain. (Gruezo 1979, Santiago et al. 2018)]

Usnea chaetophora Stirt. (Santiago et al. 2013, Galinato et al. 2018) = *Usnea dasopoga* (Ach.) Nyl.

Usnea chrysopoda Stein. (1882) [synonyms = *Usnea bayleyi* subsp. *chrysopoda* (Stein) Asahina, Galinato et al. 2018]

Usnea ciliata (Müll. Arg.) Vain. (Vainio 1909, Galinato et al. 2018)

Usnea cornuta Korb. (Santiago et al. 2013, Galinato et al. 2018)

Usnea dasaea Stirt. (Galinato et al. 2018)

Usnea dasypoga (Ach) Rohl. (Galinato et al. 2018) [as *U. chaetophora* Stirt. *U. diplotypus* Vain. and *U. filipendula* Stirt. (Santiago et al. 2013, Galinato et al. 2018), *Usnea chaetophora* Stirt. (Santiago et al. 2013, Galinato et al. 2018)]

Usnea dimorpha (Müll. Arg.) Motyka (Galinato et al. 2018)

Usnea diplotypus Vain. (Santiago et al. 2013, Galinato et al. 2018) = *Usnea dasopoga* (Ach.) Nyl.

Usnea elmeri Herre (Gruezo 1979, Galinato et al. 2018)

Usnea erecta (Stein.) Motyka (Gruezo 1979, Galinato et al. 2018)

Usnea esperantiana P. Clerc (Santiago et al. 2013, Galinato et al. 2018)

Usnea eumitrioides Motyka ex Zahlbr. (Gruezo 1979, Galinato et al. 2018)

Usnea filipendula Stirt. (Galinato et al. 2018) = *Usnea dasopoga* (Ach.) Nyl.

Usnea flammea Stirt. (Santiago et al. 2013, Galinato et al. 2018)

Usnea flavocardia Räsänen (Santiago et al. 2013, Galinato et al. 2018)

Usnea flexilis Stirt. (Vainio 1909, Gruezo 1979, Sipman 2013, Galinato et al. 2018) = *Usnea himalayana* C. Bab.

Usnea florida (L.) Weber (Herre 1946, Santiago et al. 2013, Galinato et al. 2018)

Usnea florida var. *subcomosa* Vain. = *Usnea ceratina* Ach.

Usnea fragilescens Hav. ex Lynge (Santiago et al. 2013, Galinato et al. 2018) [as *Usnea fragilescens* var. *mollis* (Vain.) P. Clerc (Galinato et al. 2018)]

Usnea fragilescens var. *mollis* (Vain.) P. Clerc = *Usnea fragilescens* Hav. ex Lynge

Usnea furcata Vain. (Galinato et al. 2018)

Usnea furcata var. *communis* Vain. (Vainio 1909) = *Usnea furcata* Vain.

Usnea furcata var. *marivelensis* (Vainio 1909) = *Usnea marivelensis* (Vain.) Motyka

Usnea glabrata (Ach.) Vain. (Santiago et al. 2013, Galinato et al. 2018)

Usnea glabrescens (Nyl. ex Vain.) Vain. (Santiago et al. 2013, Galinato et al. 2018)

Usnea grandisora Truong & P. Clerc (Galinato et al. 2018)

Usnea hakonensis Asahina (Galinato et al. 2018)

Usnea haumanii Motyka = *Usnea articulata* (L.) Hoffm.

Usnea hesperina Motyka (Santiago et al. 2013) = *Usnea subgracilis* Vain

Usnea himalayana C. Bab. (Galinato et al. 2018) [as *U. flexilis* Stirt. (Vainio 1909, Gruezo 1979, Sipman et al. 2013, Galinato et al. 2018)]

Usnea himantodes Stirt. [as *U. neoguineensis* Asahina (Gruezo 1979)] (Galinato et al. 2018)

Usnea hirta (L.) Weber ex F.H. Wigg. (Santiago et al. 2013, Galinato et al. 2018) [as *U. pectinata* Tayl. (Gruezo 1979), as *U. misamisensis* (Vain.) Motyka (Gruezo 1979, Vainio 1909, Sipman et al. 2013)]

Usnea humulis Herre (Gruezo 1979, Galinato et al. 2018)

Usnea implicata (Stirt.) Zahlbr. (Gruezo 1979) = *Usnea baileyi* (Stirt.) Zahlbr.

Usnea insignis Motyka = *Usnea baileyi* (Stirt.) Zahlbr.

Usnea intermedia (A. Massal.) Jatta (Santiago et al. 2013, Galinato et al. 2018)

Usnea japonica Vain. = *Usnea nidifica* Taylor

Usnea laevata Motyka (Vainio 1909, Herre 1946, Gruezo 1979, Galinato et al. 2018)

Usnea lapponica Vain. (Galinato et al. 2018)

▲ *Usnea longissima* Ach. (Herre 1946, Gruezo 1979, Galinato et al. 2018, Azuelo & Puno 2018)

Usnea longissima Ach. var. *typica* Vain. = *Usnea longissima* Ach.

Usnea madeirensis (Santiago et al. 2013) = *Usnea silesiaca* Motyka

▲ *Usnea marivelensis* (Vain.) Motyka (Vainio 1909, Gruezo 1979, Galinato et al. 2018) [as *Usnea furcata* var. *marivelensis* (Vainio 1909)]

▲ *Usnea mearnsii* (Vain.) Motyka (Vainio 1909, Gruezo 1979, Galinato et al. 2018)

Usnea misamisensis (Vain.) Mot. (Gruezo 1979, Vainio 1909, Sipman et al. 2013) = *Usnea pectinata* Tayl. (Gruezo 1979)

Usnea montagnei Motyka (Gruezo 1979, Galinato et al. 2018)

Usnea neoguineensis Asah. (Gruezo 1979) = *Usnea himantodes* Stirt

Usnea moreliana Motyka [as *U. rubricornuta* Truong & P. Clerc (Galinato et al. 2018)]

Usnea nidifica Taylor (Santiago et al. 2018) [as *U. japonica* Vain. (Santiago et al. 2013, Galinato et al. 2018)]

Usnea nidulans Motyka (Santiago et al. 2013, Galinato et al. 2018)

Usnea nipparensis Asahina (Galinato et al. 2018)

Usnea orientalis Motyka (Galinato et al. 2018)

Usnea pangiana Stirt. (Galinato et al. 2018)

Usnea pectinata Tayl. (Gruezo 1979) [as *Eumitria pectinata* and *Usnea misamisensis* (Vain.) Mot. (Gruezo 1979, Vainio 1909, Sipman et al. 2013)]

Usnea perplexans (Stirt.) Vain. (Vainio 1909, Gruezo 1979, Galinato et al. 2018)

▲ *Usnea philippina* (Vain.) Motyka (Vainio 1909, Galinato et al. 2018)

Usnea poliotrix Kremp. (Galinato et al. 2018)

Usnea praetervisa (Asahina) P. Clerc (Galinato et al. 2018)

▲ *Usnea pycnoclada* Vain. (Vainio 1909, Gruezo 1979, Galinato et al. 2018)

Usnea pygmoidea (Asahina) Y. Ohmura (Galinato et al. 2018)

Usnea ramosii Herre (Gruezo 1979, Galinato et al. 2018)

Usnea roseola Vain. = *Usnea ceratina* Ach.

Usnea rubescens Stirt. (Gruezo 1979) = *Usnea rubicunda* Stirt. (Gruezo 1979, Santiago et al. 2013)

Usnea rubescens Stirt. var. *rubrotincta* (Stirt.) Mot. (Gruezo 1979) = *Usnea rubrotincta* Stirt.

Usnea rubicunda Stirt. (Gruezo 1979, Santiago et al. 2013) [as *U. rubescens* Stirt. (Gruezo 1979), *Usnea rubiginea* (Michx.) Mass. (Gruezo 1979)] (Galinato et al. 2018)

Usnea rubicunda Stirt. var. *rosea* Mot. (Gruezo 1979, Galinato et al. 2018)

Usnea rubiginea (Michx.) Mass. (Gruezo 1979) = *Usnea rubicunda* Stirt. (Gruezo 1979, Santiago et al. 2013)

Usnea rubricornuta Truong & P. Clerc = *Usnea moreliana* Motyka

Usnea rubrotincta Stirt. [as *U. rubescens* Stirt. var. *rubrotincta* (Stirt.) Motyka (Gruezo 1979)] (Galinato et al. 2018)

Usnea scabrata Nyl. = *Usnea barbata* (L.) F.H. Wigg.

Usnea schadenbergiana Göpp. & Stein. (Gruezo 1979, Santiago et al. 2013, Galinato et al. 2018)

Usnea setulosa Motyka (Gruezo 1979)

Usnea silesiaca Motyka [as *U. madeirensis* (Santiago et al. 2013)]

Usnea solediosula (Müll. Arg.) Motyka (Galinato et al. 2018)

Usnea sphacelata R. Br. (Galinato et al. 2018)
 ▲ *Usnea squarrosa* Vain. (Vainio 1909, Gruezo 1979, Galinato et al. 2018)
Usnea subcornuta Stirt. (Galinato et al. 2018)
Usnea subdasaea Truong & P. Clerc (Galinato et al. 2018)
Usnea subfloridana Stirt. (Galinato et al. 2018)
Usnea subgracilis Vain. [as *Usnea hesperina* (Santiago et al. 2013)] (Galinato et al. 2018)
Usnea subscabrosa Motyka (Santiago et al. 2013, Galinato et al. 2018)
Usnea substerilis Motyka (Galinato et al. 2018)
Usnea transitoria Motyka (Galinato et al. 2018)
 ▲ *Usnea trichodea* Ach. (Herre 1946, Santiago et al. 2013, Galinato et al. 2018)
Usnea trichodea Ach. var. *rubiginosa* (Hepp) Vain. (Vainio 1909, Gruezo 1979)
Usnea wasmuthii Räsänen (Galinato et al. 2018)
Usnea welwitschiana Motyka (Santiago et al. 2013)
Varicellaria hemisphaerica (Flörke) I. Schmitt & Lumbsch [as *Pertusaria hemisphaerica* (Florke) Erichsen (Domingo et al. 2015)]
 ▲ *Varicellaria philippina* (Vain.) I. Schmitt & Lumbsch [as *Pertusaria philippina* Vain. (Vainio 1913, Gruezo 1979)]
Varicellaria velata (Turner) I. Schmitt & Lumbsch [as *Pertusaria velata* (Turn.) Nyl. (Vainio 1913, Herre 1946)]
Verrucaria calciseda DC. (Gruezo 1979)
 **Verrucaria depressa* Mey. & Flot. (Gruezo 1979)
Verrucaria heterochroa Mont. (Gruezo 1979) = *Astrothelium aeneum* (Eschw.) Aptroot & Lücking
Verrucaria hymnothora Ach. (Gruezo 1979) = *Granulopyrenis hymnothora* (Ach.) Aptroot
Verrucaria parvinuclea Mey. & Flot. (Gruezo 1979) = *Pyrenula parvinuclea* (Meyen & Flot.) Aptroot
Verrucaria pyrinoica Ach. (Gruezo 1979)
Viridothelium indutum (Stirt.) Aptroot & Lücking (Aptroot & Lücking 2016)
Wirthiotrema desquamans (Müll. Arg.) Lücking (Sipman et al. 2013)
Wirthiotrema santessonii (Hale) Rivas Plata & Frisch (Sipman et al. 2013)
Zignoella nobilis Rehm (Rehm 1916) = *Nigrovothelium tropicum* (Ach.) Lücking, M.P. Nelsen & Aptroot
Zwackhia robusta (Vain.) Ertz [as *Opegrapha robusta* Vain. (Vainio 1921, Gruezo 1979, Sipman et al. 2013)]

Discussion

The updated checklist of lichens reported for the Philippines includes 1,842 entries. Excluding the unaccepted published names, the current list of Philippine lichens is now 1,262 taxa with 1,234 validated species names. Among the validated species, the Philippine lichens were further classified into 65 families, 229 genera, 10 subspecies, 92 varieties, 15 formae, and 1 subforma. Of the 65 taxonomic families, most families (35) had only one recorded genus. Ten families had two genera, five families had three genera and 15 had five or more recorded genera (Fig. 2). Graphidaceae had 34 genera while 21 genera were identified as belonging to Parmeliaceae. The genera with high number of species is shown in Table 1. In comparison with other Asian countries, the number of lichen species was slightly lower than a bigger country like India where an annotated lichen checklist of 2,300 species belonging to 305 genera and 74 families were reported (Singh & Sinha 2010). The number of taxa was still lower than the archipelagic country like Japan with lichen records of 1,602 species and 317 genera (Harada et al. 2004). Wolseley et al. 2002 reported 554 species in Thailand. However, the number of species recorded for the Philippines increased from 1,108 in 1979 to the current number of 1,262, thereby adding 154 taxa during the last four decades. This is translated to a discovery rate of 3-4 species per year, a rather “distressing” rate in a country known for its megadiversity. What is interesting though was the findings that twenty four percent of the recorded species, i.e. corresponding to 307 taxa belonging to 65 genera,

described as new to science were from specimens collected in the Philippines. Looking at the sampling localities where these new taxa were discovered and at the areas where lichen researches had been conducted in the country (Fig. 1), it is possible that many more species await discovery in many of the unexplored areas in the Philippines. This is expected given that the Philippines is one of the megadiverse countries in the region. This checklist was therefore prepared in the hope that this will serve as baseline data and guide for identifying potential study sites in the country for future lichen research programs. The fact that many novel taxa could be discovered in the country and its current status as a biodiversity hotspot, this paper also raises an urgent call to study lichens in the Philippines before many of its lichen flora disappear or get extinct before they are even identified. Thus, there is a need to support the trainings of the next generation of Filipino lichenologists and increase appreciation of lichens by the scientific community and the general public in the Philippines.

Table 1 List of top 27 lichen genera with high number of identified species.

Genera	Species	Genera	Species	Genera	Species
<i>Graphis</i>	109	<i>Cladonia</i>	25	<i>Relicina</i>	17
<i>Usnea</i>	71	<i>Arthonia</i>	24	<i>Heterodermia</i>	15
<i>Porina</i>	39	<i>Opegrapha</i>	22	<i>Hypotrachyna</i>	15
<i>Leptogium</i>	38	<i>Sticta</i>	22	<i>Phaeographis</i>	15
<i>Parmotrema</i>	36	<i>Thelotrema</i>	21	<i>Physcia</i>	15
<i>Pyrenula</i>	31	<i>Bacidia</i>	20	<i>Lecanora</i>	14
<i>Lecidea</i>	26	<i>Pannaria</i>	19	<i>Pyxine</i>	14
<i>Lobaria</i>	26	<i>Strigula</i>	19	<i>Coenogonium</i>	13
<i>Ocellularia</i>	26	<i>Pseudocyphellaria</i>	18	<i>Sarcographa</i>	13

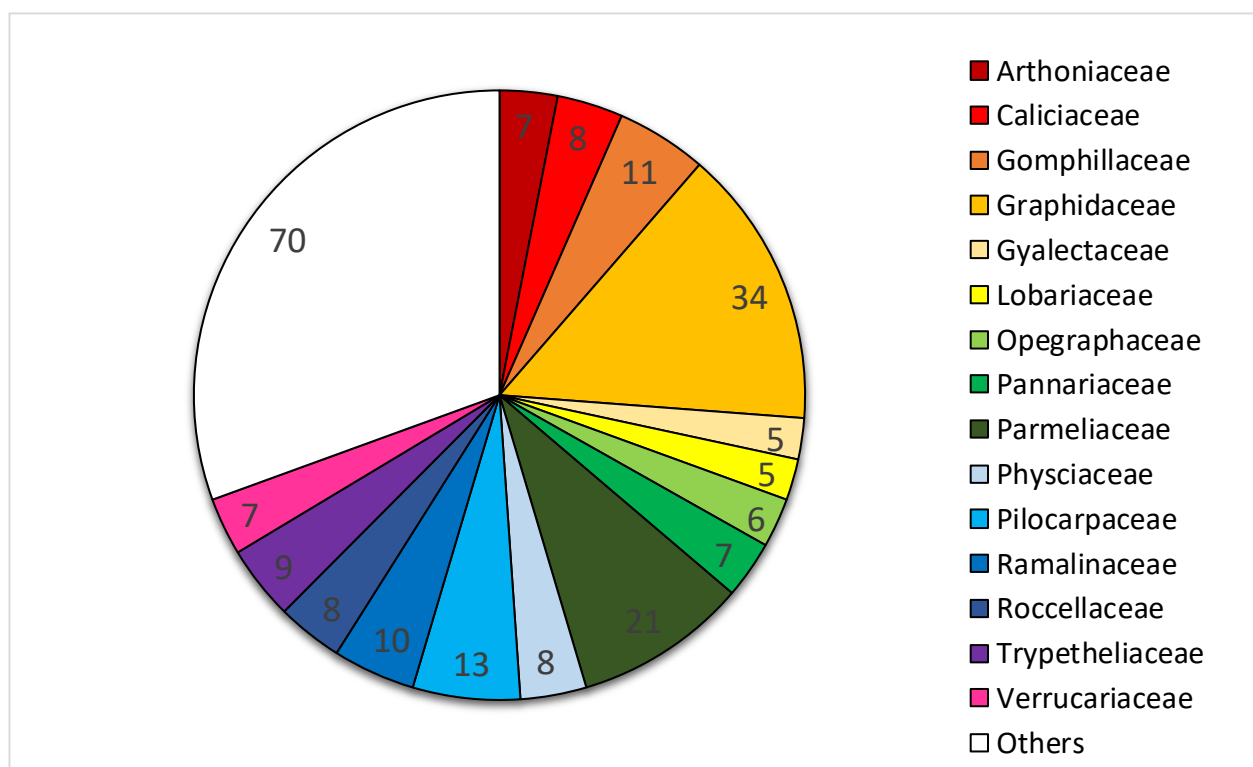


Fig. 2 – Distribution of lichen genera per taxonomic families (n = 229).

Acknowledgements

We are grateful to those individuals who have contributed to the progress of this project: Dr. Dalip Kumar Upreti, Chief Scientist at CSIR-National Botanical Reserach Institute, Lucknow

for giving us a copy of the books published by Vainio and student members of the FBeS group at the University of Santo Tomas for their assistance in the collection of all the published researches on Philippine lichenology. This study was financed in part by the Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – Brasil (CAPES) – Finance Code 001 and the UST Research Center for the Natural and Applied Sciences.

Dedication

This checklist is dedicated to all Filipino lichenologists whose works have contributed to the biodiversity of lichens in the Philippines.

References

- Aptroot A. 2012 – A world key to species of *Anthracothecium* and *Pyrenula*. *Lichenologist* 44, 5–33.
- Aptroot A, Lücking R. 2016 – A revisionary synopsis of the *Trypetheliaceae* (Ascomycota: *Trypetheliales*). *Lichenologist* 48, 763–982.
- Aptroot A, Sipman H. 1989 – New lichen records from the Philippines. *Acta Bryolichenologica Asiatica* 1, 31–41.
- Aptroot A, Sparrius LB. 2016 – Addition to the lichen flora of Vietnam, with an annotated checklist and bibliography. *Bryologist* 109, 358–371.
- Aptroot A, Schumm F. 2009 – A new species of the lichen genus *Crustopathula* from the Philippines. *Herzogia* 22, 67–70.
- Aptroot A, Schumm F, Cáceres MES. 2012 – Six new species of *Pyrenula* from the tropics. *Lichenologist* 44, 611–618.
- Arvidsson L. 1982 – A monograph of the lichen genus *Coccocarpia*. *Opera Botanica* 67, 1–96.
- Asplund J, Wardle DA. 2016 – How lichens impact on terrestrial community and ecosystem properties. *Biological Reviews* 92 (3), 1720–1738.
- Azuelo AG, Puno GR. 2018 – Moss and lichen diversity in Mt. Kalatungan Range Natural Park, Bukidnon, Philippines. *International Journal of Biosciences* 12 (3), 248–258.
- Bawingan P, Lardizaval M, Elix J. 2019 – Philippine lichens with bulbate cilia – *Bulbothrix* and *Relicina* (Parmeliaceae). *Philippine Journal of Science* 148 (4), 637–645.
- Bawingan PA, Pinas A, Amoncio R, Amilao D et al. 2014 – Diversity and adaptive features of corticolous lichens in the Hundred Islands, Philippines. *Philippine Journal of Systematic Biology* 8, 46–62.
- Bawingan PA, Lardizaval MP, Rosuman PF, Fajardo WT et al. 2017 – Philippine species of *Parmotrema* (Ascomycota, *Parmeliaceae*). *Philippine Journal of Science* 146 (2), 145–158.
- Catibog-Sinha CS, Heany L. 2006 – *Philippine Biodiversity: Principles and Practice*. Quezon City: Haribon Foundation for the Conservation of Natural Resources, Inc.
- De Jesus EE, Hur JS, Notarte KIR, Santiago KAA, dela Cruz TEE. 2016 – Antibacterial, antioxidant and cytotoxic activities of the corticolous lichens *Canoparmelia aptata*, *Pannaria* sp., and *Parmotrema gardneri* collected from Mt. Banahaw, Quezon, Philippines. *Current Research on Environmental and Applied Mycology* 6 (3), 173–183.
- Domingo WJM, Medina MND, Leano EP. 2015 – Annotated list of bryophytes and lichen from Mainit Hot Spring Protected landscape, Nabunturan, Compostella Valley, Mindanao, Philippines. *International Journal of Current Research in Biosciences and Plant Biology* 2 (10), 110–119.
- Elix JA, Schumm F. 2001 – A new species and new records in the lichen family *Parmeliaceae* (Ascomycotina) from the Philippines. *Mycotaxon* 79, 253–260.
- Fajardo WT, Bawingan PA. 2019 – Taxonomy and new records of Graphidaceae lichens in Western Pangasinan, Northern Philippines. *Philippine Journal of Systematic Biology* 13 (2), 40–54.

- Farkas E. 2015 – Names of *Bacidia* s.l. in current use for folliicolous lichens – an annotated nomenclatural study. *Acta Botanica Hungarica* 57 (1–2), 51–70.
- Gazo SMT, Santiago KAA, Tjitrosoedirjo SS, dela Cruz TEE. 2019 – Antimicrobial and herbicidal activities of the fruticose lichen *Ramalina* from Guimaras Island, Philippines. *Biotropia* 26 (1), 23–32.
- Galinato MGM, Baguinon JRC, Santiago KAA. 2018 – Review of the lichen genus *Usnea* in the Philippines. *Studies on Fungi* 3 (1), 39–48.
- Gruezo W. 1979 – Compendium of Philippine lichens. *Kalikasan, Philippines Journal of Biology* 8 (3), 267–300.
- Gruezo W. 2006a – Revision of the lichen genus *Lobaria* (Schreb.) Hoffm. in the Philippines 1. subgenus *Lobaria* section *Lecanolobarina* Vain. *Asian International Journal of Life Sciences* 15 (1), 1–46.
- Gruezo W. 2006b – Revision of the lichen genus *Lobaria* (Schreb.) Hoffm. in the Philippines II. Subgenus *Lobaria* section *Lobaria*. *Asia Life Sciences* 15 (2), 107–172.
- Gruezo W. 2007 – Revision of the lichen genus *Lobaria* (Schreb.) Hoffm. in the Philippines III. Subgenus *Ricasolia* (DeNot.) Gruezo comb. et stat. nov. *Asia Life Sciences* 16 (1), 1–18.
- Hafellner J. 1981 – Monographie der Flechtengattung *Letrouitia* (*Lecanorales*, *Teloschistineae*). *Nova Hedwigia* 35, 645–729.
- Hale ME. 1975 – A revision of the lichen genus *Hypotrachyna* (*Parmeliaceae*) in tropical America. *Smithsonian Contributions to Botany* 25, 1–73.
- Hall R. 2002 – Cenozoic geological and plate tectonic evolution of SE Asia and the SW Pacific: computer-based reconstructions, model and animations. *Journal of Asian Earth Science* 20, 353–431.
- Harada H, Okamoto T, Yoshimura I. 2004 – A checklist of lichens and lichen-allies of Japan. *Lichenology* 2, 47–165.
- Herre AWCT. 1924 – Lichens in the Philippines. *The Bryologist* 27, 85–86.
- Herre AWCT. 1946 – The lichen flora of the Philippines. *Journal of the Arnold Arboretum* 27, 408–412.
- Herre A. 1957 – New records of Philippine and other tropical pacific with description of five new species. *Philippine Journal of Science* 86, 13–34.
- Herre A. 1963 – The lichen genus *Usnea* and its species at present known from the Philippines. *Philippine Journal of Science* 92 (1), 41–76.
- Indexfungorum 2020 – www.indexfungorum.org (Accessed January 2020)
- Jayalal U, Wolseley P, Gueidan C, Aptroot A et al. 2012 – *Anzia mahaelyensis* and *Anzia flavotenuis*, two new lichen species from Sri Lanka. *Lichenologist* 44 (3), 381–389.
- Joshi Y. 2019 – *Opegrapha physciae* (Arthoniales: Opegraphaceae), a new lichenicolous species from the Philippines. *Kew Bulletin* 74, 57. Doi: 10.1007/s12225-019-9849-7
- Joshi S, Upreti DK, Bawingan PA, Hur JS. 2018 – New species in the family Graphidaceae (Ascomycota: Ostropales) from the Philippines. *Phytotaxa* 345 (2), 152–158.
- Liu D, Wang XY, Wang LS, Maekawa N, Hur JS. 2019 – *Sulzbacheromyces sinensis*, an unexpected Basidiolichen, was newly discovered from Korean Peninsula and Philippines, with a phylogenetic reconstruction of Genus *Sulzbacheromyces*. *Mycobiology* 47 (2), 191–199.
- Lucban MC, Paguirigan JAG. 2019 – Occurrence of manglicolous lichens in Calabarzon, Philippines. *Studies in Fungi* 4 (1), 263–273.
- Lücking R. 2008 – Folliicolous lichenized fungi. *Flora Neotropica Monograph* 103.
- Lücking R, Nelsen MP, Aptroot A, Barillas de Klee R et al. 2016 – A phylogenetic framework for reassessing generic concepts and species delimitation in the lichenized family *Trypetheliaceae* (Ascomycota: *Dothideomycetes*). *Lichenologist* 48, 739–762.
- Lumbsch HT, Ahti T, Altermann S, Amo De Paz G et al. 2011 – One hundred new species of lichenized fungi: a signature of undiscovered global diversity. *Phytotaxa* 18, 1–127.
- Mycobank 2020 – www.mycobank.org (Accessed January 2020)

- Paguirigan JAG, Bernal KD, Dayto CGA, Ramos MED et al. 2019 – Foliose lichens along the trails of Casaroro Falls and Pulangbato Falls in Valencia, Negros Oriental, Philippines. *Studies in Fungi* 4 (1), 43–49.
- Rehm A. 1907 – Leaflets of Philippine Fungi.
- Rehm A. 1914 – Leaflets of Philippine Fungi.
- Rehm A. 1916 – Leaflets of Philippine Fungi.
- Rivas Plata E, Sipman HJM, Lücking R. 2014 – Five new thelothrematoid *Graphidaceae* from the Philippines. *Phytotaxa* 189, 282–288.
- Santesson R. 1952 – Foliicolous lichens. *Symbolae Upsalienses* 12, 1–590.
- Santiago KA, Borricano JNA, Canal JN, Marcelo DMA et al. 2010 – Antibacterial activities of fruticose lichens collected from selected sites in Luzon Island, Philippines. *Philippine Science Letters* 3 (2), 18–28.
- Santiago KAA, Sangvichien E, Boonpragob K, dela Cruz TEE. 2013 – Secondary metabolic profiling and antibacterial activities of different species of *Usnea* collected in Northern Philippines. *Mycosphere* 4 (2), 267–280.
- Santos PS, Lat B, Palo M. 1964 – The antibiotic activities of some Philippine lichens. *Philippine Journal of Science* 98, 297–303.
- Singh KP, Sinha GP. 2010 – Indian Lichens: An Annotated Checklist. Botanical Survey of India, Kolkata.
- Sipman HJM. 1983 – A monograph of the lichen family *Megalosporaceae*. *Bibliotheca Lichenologica* 18, 1–241.
- Sipman HJM, Diederich P, Aptroot A. 2013 – New lichen records and a catalogue of lichens from Palawan Island, the Philippines. *Philippine Journal of Science* 142, 199–210.
- Sparrus LB. 2004 – A monograph of *Enterographa* and *Sclerophyton*. *Bibliotheca Lichenologica* 89, 1–141.
- Staiger B, Kalb K. 1995 – *Haematomma*-Studien I. Die Flechtengattung *Haematomma*. *Bibliotheca Lichenologica* 59, 1–198.
- Tabaquero AL, Bawingan P, Lücking R. 2013 – Key and checklist of *Graphidaceae* lichens in Kalahan Forest Reserve, Nueva Vizcaya, Philippines. *Philippine Journal of Systematic Biology* 7, 22–38.
- Timbreza LP, delos Reyes JL, Flores CHC, Perez RJLA et al. 2017 – Antibacterial activities of the lichen *Ramalina* and *Usnea* collected from Mt. Banoí, Batangas and Dahilayan, Bukidnon against multi-drug resistant (MDR) bacteria. *Austrian Journal of Mycology* 26, 27–42.
- Vainio EA. 1909 – Lichenes Insularum Philippinarum I. *Philippine Journal of Science Section C Botany* 4 (5), 651–662.
- Vainio EA. 1913 – Lichenes Insularum Philippinarum II. *Philippine Journal of Science Section C Botany* 8 (2), 99–137.
- Vainio EA. 1921 – Lichenes Insularum Philippinarum III. *Annales Academiae Scientiarum Fennicae. Ser. A* 15 (6), 1–368.
- Vainio EA. 1923 – Lichenes Insularum Philippinarum IV. *Annales Academiae Scientiarum Fennicae*. 19 (15), 1–84.
- Wolseley PA, Aguirre-Hudson B, McCarthy PM. 2002 – Catalogue of the lichens of Thailand. *Bulletin of the Natural History Museum Botany Series* 32 (1), 13–59.