Exploration of Lichen in Nepal

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Abstract

Lichens are great part of our healthy nature. They have a great contribution to mankind and environment directly and indirectly. Understanding each of their taxonomy and publish them is primary urgency in term of biodiversity registry. Exploration of different forms of biodiversity has taken place after Nepal opened for foreign countries. Interests on lichens are no more exception. This work has been put forwarded to revise literature about work done and published related on Nepalese lichens both by foreign as well as native lichenologists. Based on compilation of the previous works done in different geographical regions of Nepal, a total of 873 taxa (805 species, 46 varieties, 10 subspecies, 12 forma) belonging to 185 genera and 61 families having Parmeliacaea as dominant family were reported so far until now. Central Nepal is found the most explored region of the country followed by eastern and western Nepal. Much work done were concerned about documentation and identification by foreign lichenologists and deposited in their own herbaria. This review tries to figure out exploration of lichen in different time period, total lichen taxa of Nepal and to present area of interest of lichenologist in recent period.

Keywords: Central Nepal, Host specificity, Lichen richness, Life forms

Introduction

Lichens, the non-vascular cryptogams and an excellent example of symbiotic association between mycobiont and photobiont, are broadly categorized into crustose, foliose and fruticose life-forms on the basis of their general morphology As the mycobiont is unique in the symbiotic association and usually dominates the association, lichen are classified as life form of fungi (Rankovie & Kosanic 2015). Lichens are one of the most successful organisms to colonize at extreme environments such as cold arctic and alpine environments where a few other plants can establish (Schroeter et al. 1994; Kappen et al. 1996). They can grow at almost every type of terrestrial habitats and fewer of them were also recorded from freshwater streams (e.g. *Peltigera hydrothyria*) and in the marine intertidal zone (e.g. *Lichina* spp.) (Hawksworth 2000). Lichens are dominant autotrophs in many polar and sub-polar ecosystems (Longton 1988). Rogers (1977) estimated about 20,000 species of lichen in the world. Lichens dominate approximately 8% of the Earth's land surface (Nash, 2008). At higher latitudes, the number of lichen species exceeds the number of vascular plant species (Nash, 2008). Global number of currently recognized lichens range was estimated between 13,500 (Hawksworth et al., 1996) and nearly 20,000 when "orphaned" species were included (Sipman & Aptroot 2001). It was estimated that about 50% of the tropical lichen mycobiota were still unknown (Aptroot & Sipman 1997). In Asia, the Himalayan habitats are rich for lichens (Upreti 1998). Sharma (1995) estimated 2,000 species of lichen in Nepal representing only 10% of the total lichens species likely occurred in the world. *Carborea voryticosa* reported from the world's highest altitude that was from Nepalese Himalayan at 7400m asl (Baniya et al., 2010). Baniya et al. (1999) described a gross distribution pattern of lichens with physiographic zones in Nepal and reported that lower elevation was rich in crustose lichen; middle elevation was rich in foliose lichen while higher elevation was rich in fruticose form of lichen.

In context of Nepal, lichens from the lowland Terai and Siwalik hills are much less known, and those of western Nepal remain largely unexplored (Bhuju et al., 2007). Among terrestrial photosynthetic organisms they are the major group that is least investigated in Nepal (Baniya et al., 2010). Lichens are difficult to recognize as compared to other vascular plants due to their small size, being non-

flowering and due to lack well-illustrated and well pictured flora. They are identified by their external morphological characters, internal anatomy and chemical constituents. Color spot test usually applied on thallus and thin layer chromatography conducted to identify chemistry of each thallus helped to identify lichen species. In addition, structural character and ontogeny of apothecia are also taken as most stringent character to separate individual genera as well as species. In Nepal, many publications have dealt with taxonomic exploration of specific generic records as well as lichen flora of specific region or the whole country Nepal. However a comprehensive review of all publications is lacking. Thus this present work has attempted to review works performed on Nepalese lichens at different intervals of time. Although in this study we have attempted to cover all of the available literature on lichen flora of Nepal published till 2020, inaccessibility of some literature is no more exception. This study in one hand might provide knowledge on research works done in Nepal and in other hand could highlight major gaps in lichen research of Nepal.

Materials and Methods

This present review is information about lichen species related research work done in Nepal, especially lichen explorations in different parts of the country at different time periods by foreign as well as Nepalese lichenologists. They published their findings in different journals, books and reports. All available information was gathered via searching scientific databases including Elsevier, Springer, Google Scholars, and Cyberliber etc. Also related thesis works, books, project reports and other available periodicals were reviewed. Global biodiversity information facility (GBIF) was followed to check accepted names and for author citation.

Results and Discussion

Historical Study of Nepalese Lichen till 1950

Lichenological research in Nepal was primarily initiated by western lichenologists followed by Indians and Japanese. For the first time in Nepal, the knowledge about lichen was introduced by Wallich's collection done during 1820-26. His collections were mainly from the eastern and central regions of the country (Thapa & Rajbhandary 2012). Nylander in 1860 published some Nepalese Lichen specimens collected by Sir Joseph Dalton Hooker and Thompson on "Synopsis Methodica Lichenum". Likewise, Paulson (1925) described 31 lichen taxa collected by Sommervella in 1924, from Mt. Everest, Nepal.

Mid period (1950- 2000)

In Mid period, major contribution to the lichenological exploration of Nepal was provided by foreign lichenologist. Nakao collected lichen species from different parts of eastern Nepal during the expedition to the Nepal Himalaya in 1952-53 (Thapa & Rajbhandary, 2012). Based on his collection, Asahina (1955) described 62 species of lichen and Abbayes (1958) reported distribution of Cladonia species from Nepal Himalayas. For the first time, Awasthi (1957), based on his own collection done in eastern Nepal, reported Nepalese lichen and included 38 species in his publication. Among which *Cetraria nepalensis*, *Cetraria pallid* and *Physcia melanotricha* were new species. D. D. Awasthi was regarded as father of Indian Lichenologist. Based on collection of R. S. Rao, botanist member of the Indian expedition to Cho-Oyu in east Nepal, Awasthi (1960) described 38 species of lichens among which five species were reported as new reports for the Himalayas.

Professor J. J. Poelt was the most famous lichenologist who conducted a series of lichen expeditions to Nepal. His first Himalayan expedition was held in 1962 in the southern flank of the Mount Everest region of Solu Khumbu. His second Himalayan expedition was held in Langtang region, Central Nepal. Most of his collections were housed at Botanische Staatssammlung Munchen (M) and Graz University Herbarium (GZU) respectively. Results of his expedition's represented 39 new taxa to science. His herbarium collections have been maintaining by University Gratz, Austria together with collections made from Tibet of China. Poelt

(1974) revised the genera *Physica* and *Physconia* of the himalayan region. Out of the 19 species of *Physica*, 4 were new to science, and 15 species were new report from Nepal, and 2 species of *Physciopsis* and *Physoconia* were also reported. Vezda & Poelt (1974) reported *Dimerella lutea* and described *Pachyphiale himalayensis* new to science from Nepal. Poelt (1977) described 12 species of *Umbilicaria* from Nepal. Poelt & Mayrhofer (1988) published the new taxa of *Bryonora selenospora, B. reducta and B. rhypariza* var. cyanotropha collected from Langtang area, Central Nepal.

Asahina & Kurokawa (1966) reported 62 species of lichens new to science out of a total of 133 species collected from eastern Nepal. Kurokawa (1967) enumerated 53 species of lichens from Rolwaling region among which 26 species were new to Nepal. Yoshimura (1971) reported *Lobaria subretigera* from Rolwaling expedition, a lichen species new to science but later found that was a synonym of *L. pseudopulmonaria*. He further reported four species of *Lobaria* from Nepal in his monographic study of Eastern Asian *Lobaria.* Among these four species he reported *L. pseudopulmonaria* (= *L. isidiosa*) from Panchthar district, east Nepal. Bystrek (1969) described 12 species of *Alectoria* from eastern Nepal among them 3 taxa: *A. perspinosa, A.poeltii* and *A. variabilis* were new to science. Lamb (1977) stated that the occurrence of 10 species of *Stereocaulon* in Nepal. Hertel (1977) described 24 saxicolous species from Nepal among which 7 species were new to Science.

Similarly, Awasti & Awasti (1985) studied lichen genera *Alectoria, Bryoria* and *Sulcaria* from India and Nepal. Vitikainen (1986) reported *Peltigera dolichospora*, a new lichenicolous fungus from eastern Nepal. Their altitudinal range was 3000-4100 m. Isotype of *P. dolichospora* was preserved in the Leningrad herbarium (LE). Awasthi & Mathur (1987) published lichen genera *Usnea, Bacidia, Badimia, Fellhanera* and *Mycobilimbia* collected from Nepal. Upreti (1987) prepared a key to 62 species of lichen genus *Cladonia* reported from India and Nepal.

Kurokawa (1988) reported 38 species of genera *Parmelia* (24 species) and *Anaptychia* (14 species) from Kathmandu valley. Similarly, Sharma & Kurokawa, (1990) reported 10 species of *Anaphychia* and 21 species of *Parmelia* from Nepal among which *Parmelia erumpnse* and *Parmelia sinuosa*were new to Nepal. Poelt, (1990) presented a list of roughly 280 lichen taxa as an attached (and commented) list in the doctoral thesis of Georg Miehe, (1990) dealing with vegetation ecology in Langtang area. Another publication, Esslinger &Poelt,(1991) dealing with a soil inhabiting *Parmelia* contains the new description of *Parmelia masonii* (based on specimens of the Langtang and Khumbu region). Altitudinal range of that species was from about 3000m to 5100m and very common to Langtang area and specimens were also collected from Khumbu and Kali Gandaki area of Nepal. Their specimens were preserved in Graz University Herbarium.

Upreti (1987) prepared key to 62 species of lichen genus *Cladonia* reported from Nepal and India. Awasthi (1991 & 2007) consolidated the taxonomic information through detail keys and taxonomic diagnostics for both micro-as well as macrolichens from Nepal, India and Sri Lanka. Pant & Upreti (1993) reported five species of *Diploschistes* from Nepal. These species were *D. bisporus*, *D. muscorum*, *D nepalensis*, *D. rampoddensis* and *D. scruposus*. Sharma (1995) consolidated a checklist of lichens of Nepal including 465 species belonging to 79 genera. Baniya (1996) enumerated 99 taxa of lichens from Shivapuri and Sikles, out of which 33 species were new record to Nepal. Shakya et al. (1997) listed 471 species of lichens of Nepal. Likewise, Pathak (1998) enumerated 52 species of lichens from Hetauda and Dang. Devkota (1999) enumerated 55 species of lichens from Namobuddha, Kavrepalanchok and studied the antibiotic properties of *Heterodermia diademata, Parmelia nepalensis* and *Parmelia reticulata*.

Recent period (2000-2020)

Lichen diversity along elevation gradient has been analyzed intensively in recent years (Baniya & Gupta 2002; Devkota, 2008; Baniya et al., 2010; Rai et al., 2017) as well as lichen diversity along

land-use gradients (Nag et al., 2011; Chongbang et al., 2018) and relationship between land use related canopy openness and lichen species richness studied by Chongbang et al. (2018).

A total of 77 lichens species belonging to 28 genera and 25 families and 78 lichen species belonging to 17 genera and 15 families were enumerated by Baniya & Gupta (2002) from an elevation of 2,900 to 3,400 m in Thodimai region of Annapurna conservation area (ACA), and from an elevation of 1,100 to 2,300 m in between Arun river bridge to Tashigaun, buffer zone of Makalu-Barun National Park respectively. From different altitudinal gradients of Phulchoki, extending from 1500 to 2700m above sea level, a total of 32 species of lichens were identified on basis of their morphology, anatomy, color reaction, thin layer chromatography and micro-crystallography (Devkota 2008). Baniya et al. (2010) studied distribution pattern of lichen along the Nepalese Himalayan elevation gradient between 200m to 7400 m from a total of 525 lichen species among which 55 were endemic to Nepal. All growth forms showed unimodal relationship with elevation, crustose lichens showed peak at 4100- 4200m while foliose lichens peaked at 2400-2500m and fructiose lichens peaked at 3200m (Baniya et al., 2010).

Jorgensen & Olley (2010) reported a new species of cyanolichen genus, *Leptogium sphaerosporum* from Langtang region of central Nepal. It was different from other species of genus on having distinctly stalked apothecia, delicate thallus with phyllidia and spheroid ascopores. Holotype was preserved in Royal Botanic Garden Edinburgh Herbarium (E). Similarly, Maccune et al. (2012) reported 17 species of the genus *Hypogymnia* in the Himalayan region of India and Nepal. Olley & Sharma, (2013) published a provisional checklist of the lichens of Nepal, including 792 species belonging to 187 genera.

Baral (2015) identified and reported 68 species of lichens among 448 collected specimens and 13 species among 173 collected specimens from Sagarmatha National Park and Manaslu Conservation Area respectively. From the community forest of Dadeldhura districts, twenty-eight new records of lichenized fungi belonging to 13 families were reported (Rai et al., 2017). These new records were *Acarospora fusca, Arthonia recedens, Bacidia subannexa, Buellia aethalea, Buellia disciformis, Buellia disjecta, Canoparmelia pustulescens, Chrysothrix candelaris, Cladonia coniocraea, Collema cristatum, Endocarpon subrosettum, Graphis chlorotica, Graphis proserpens, Hafellia tetrapla, Herpothallon isidiatum, Heterodermia albidiflava, Heterodermia hypochraea, Hyperphyscia adglutinata, Lecanora luteomarginata, Leptogium platinum, Myelochroa indica, Pyrenula complanata, Pyxine berteriana, Pyxine farinose, Rinodina sophodes, Verrucaria acrotella, Verrucaria margacea* and *Xanthoparmelia australasica*.

From Annapurna Conservation Area, Jha et al. (2017) reported 84 lichen species. Combining with earlier publications on Lobariaceae and based on the specimens collected during three major lichenological field expeditions in 2007, 2009 and 2011-2014, Devkota et al. (2017a) summarized two genera *Lobaria* and *Sticta* each with seven and six species respectively from ten different districts of Nepal viz. Taplejung, Solukhumbu, Rasuwa, Gorkha, Manang, Kaski, Myagdi, Panchthar, Dolakha, and Doti district of Nepal and reported *L. adscripturiens, L. fuscotomentosa* and *S. limbata* as new records for the lichen flora of Nepal. Most of the Lobariaceae species were distributed within the temperate zone of Nepal. *L. isidiosa* had the largest altitudinal range (2662-5004 m), followed by *L. retigera* (2141-4200 m) and *S. praetextata* (2036- 3908 m).

Olley & Sharma (2013) reported *Sticta limbata* from Kyanjin valley (3180 m), Langtang area. Except some species like *L. isidiosa*, which was found in the nival zone (above 5000 m), *L. retigera* and *L. pindarensis*, which was are found in the alpine zone (4000-5000 m) and *Sticta weigelii* and *Lobaria discolor* which were found in subtropical zone (1000-2000 m), the remaining species were found from the temperate to subalpine zone (2000-4000 m). Karmacharya et al. (2018) reported 18 new species belonging to Graphidaceae out of a total 24 documented species of Graphidaceae. Those 18 new species were *Diorygma hieroglyphicum,*

Diorygma junghuhnii, Graphis antillarum, Graphis breussii, Graphis cincta, Graphis cleistoblephara, Graphis galactoderma, Graphis leprographa, Graphis lineola, Graphis paradisserpens, Graphis pertricosa, Graphis pinicola, Graphis stenotera, Graphis subvelata, Pallidogramme chrysenteron, Pallidogramme divaricoides and *Phaeographis leiogrammodes*. Chongbang et al. (2018) reported 229 lichen species belonging to 71 genera on Ghunsa valley of Eastern Nepal.

Nag et al. (2011) reported 27 epiphytic lichen genera belonging to 13 families from ten land use types of the Dadeldhura community forest, west Nepal. According to Nag et al. (2011) foliose parmeloid were most abundant group, found inhabiting all the phorophytes. Majority of the epiphytic lichens were found influenced by *Quercus leucotrichophora* trees and some lichen genera, such as *Heterodermia* sp., *Parmotrema* sp., *Lepraria* sp. and *Lecanora* sp., were highly confined to *Q. leucotrichophora* trees only. Older stand of *Quercus* harbored maximum diversity of parmeloid lichens while younger stands usually harbored crustose lichens. This difference might be because of difference in bark characteristics of younger and older stand of *Quercus* sp. Similarly, Rai et al. (2017) reported that *Q. leucotrichophora* tree stand of Dadeldhura community forest provided the best habitat for maximum corticolous lichen. They stated that community forests harbor native vegetation of biodiversity conservation and need of further exploration in western Nepal as a region remains largely unexplored and suitable for lichen growth. Nag et al. (2011) concluded that lichen diversity was comparatively higher in primary forest and was increased from outer fringes of the forest to the core whereas Chongbang et al. (2018) reported highest numbers of foliose lichens were from exploited forests followed on natural forests, but the highest number of corticolous species were recorded from natural forests followed by exploited forests. High richness of corticolous lichen in natural forest might be because of high diversity of trees in their natural form in natural forest that could provide semi-shaded habitats and high moisture to corticolous lichen. Chongbang et al. (2018) further added high saxicolous lichen richness in meadows, might be because of a high abundance of rocks which were exposed on meadows. Distribution of lichen communities is significantly affected by substrate types that in turn were dependent on land-use types as well as canopy openness (Chongbang et al., 2018). Total species richness of lichens and richness of specific growth forms, specific substrate types and specific photobiont types, except richness of leprose, muscicolous, terricolous lichens, showed a unimodal relationship with elevation (Bruun et al., 2006; Grytnes et al., 2006; Baniya et al. 2010). However, a significant monotonic increase of total richness of lichens and richness of specific growth forms, specific substrate types and richness of photobiont types with elevation was reported by Chongbang et al. (2018). Difference in pattern may be because of difference in scale of study as they differed in range of elevation gradient. Latter study was confined at a smaller and former study was at a larger elevational gradient. Thus in recent period along with identification and documentation, lichenologist were also interested to study affect of various factors like land use type, canopy openness and closeness, elevation gradient on lichen diversity.

Number of taxa published by time period

Compilation from published literature showed total lichenized-fungi found in Nepal is 873 (805 species, 46 varieties, 10 subspecies, 12 forma) belonging to 185 genera and 61 families. (Olley & Sharma 2013; Rai et al. 2017; Devkota et al. 2017 & Karmacharya et al. 2018) (Table 1). Most dominant family is Parmeliaceae (222 taxa) followed by Physciaceae (90 taxa), Lecanoraceae (62 taxa), Teloschistaceae (53 taxa), Cladoniaceae (42 taxa), Caliciaceae (40 taxa), Collemataceae (38), Graphidiaceae (36 taxa), Ramalinaceae (28 taxa), Lecideaceae (24 taxa), Stereocaulaceae (20 taxa) and so on (Figure 3). However, documentation of each taxon needed to be reconfirmed as data given by Olley & Sharma (2013) in article is different than the no. of taxa given in list belonging to same article. In this review, no. of taxa given by Olley and Sharma (2013) in list has been followed. Similarly three species (*Heterodermia albidiflava, Hyperphysica adglutinata* and *Pyxine berteriana*) reported by Rai et al. (2017) as new

records of Nepal were already given by Olley and Sharma (2013) in Provisional Checklist of Lichens of Nepal. In addition, based on previous published research work, it was found that majority of lichen exploration were done in Central Nepal followed by Eastern and Western part of Nepal. Little work was done in Western part of Nepal. Lichens from the lowland Terai and Siwalik hills were also largely missing. Record of twenty eight new species from a single community forest of Dadeldhura district by Rai et al., (2017) can be discussed in light of less explored and lichen rich Western region of Nepal. So lichen exploratory work in Western region as well as lowland Terai is necessary.

All published literature revealed that there was a progressive increase in number of lichen species as a common trend to other fields of study. In Nepal, lichen diversity published was from 465 taxa belonging to 79 genera in 1995 (Sharma 1995) to 828 taxa belonging 179 genera in 2013 (Olley and Sharma, 2013) and 873 taxa belonging to 185 genera in 2020 (Olley and Sharma, 2013, Rai et al., 2016, Devkota et al. 2017, Karmacharya et al. 2018, Figure 1). Among total recorded lichen species foliose was the most dominant (45%) life form followed by crustose (39%) and fruticose lichen (17%) (Baniya 2020, Figure 2). Occurrence of higher percentage of foliose lichen might be of large number of temperate broad-leaved and coniferous trees with bark differing in roughness, moisture retention capacity and pH that present a wide variety of habitats in middle elevation range. Foliose lichens are found in middle elevation (Baniya et al., 1999) where temperate zone with extremely large local variations in water availability and the accompanying gradients in vegetation cover favors lichen growth. The zone with maximum lichen richness also represents the temperate zone (Baniya et al., 2010).

In context of Nepal, little work was done analyzing lichen at different land use types, different canopy openness and in field of lichen host specificity which are very important to incorporate in research work to conserve lichen diversity. Lichen species,

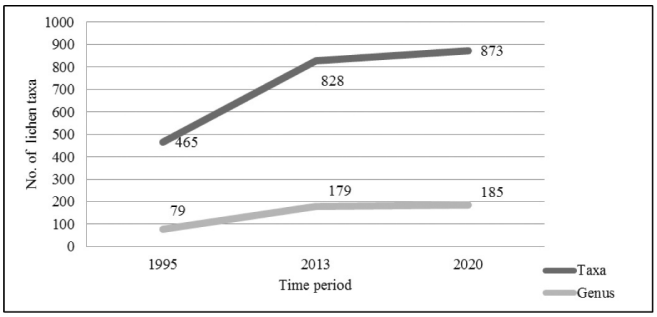

Figure 1: Increase in number of lichen species and genera in different time periods

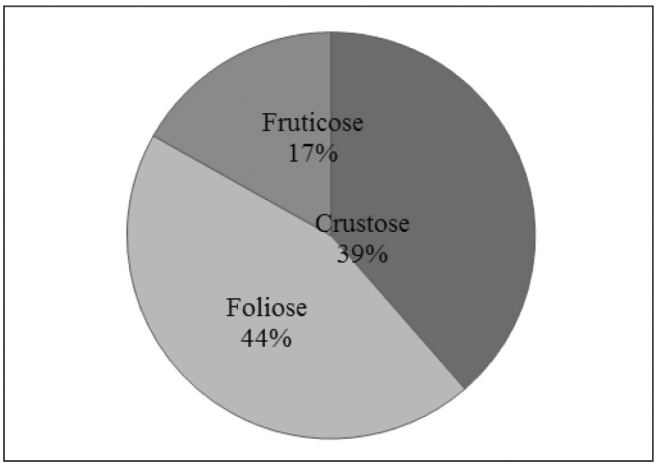

Figure 2: Different life-form of lichen published (Baniya 2020)

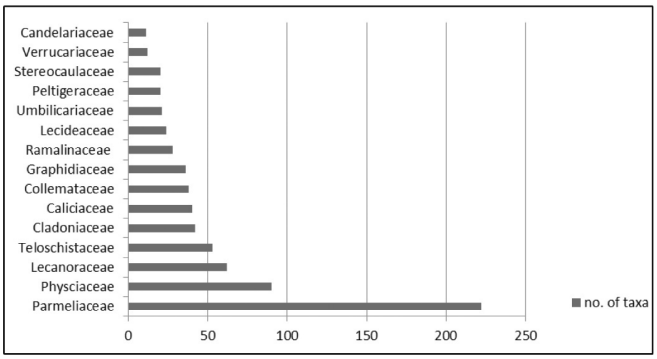

Figure 3: Lichen exploration in different developmental regions of Nepal

although had wider distribution than vascular and other cryptogams, were influenced greatly by changes in land-use (Stofer et al., 2006) and among the various growth forms, foliose (i.e. parmeloid lichens) was considered as most sensitive to land-use changes (Saipunkaew et al., 2007). Rapid land use change for agriculture and urbanization results deforestation and habitat fragmentation following habitat degradation are among the various

causes which were responsible for rapid depletion of lichen diversity (Vinayaka 2016). Epiphytic lichen diversity was found variously influenced by phorophyte age, ambient air quality, and change in neighborhood land-cover (Saipunkaew et al., 2005; Pinokiyo et al., 2008). Research on the occurrence of lichens in relation to host species seemed very urgent in Nepal (Baniya et al., 1999). According to Nag et al., (2011), the preferential distribution of lichens on any phorophyte is indicative of dominant status of this tree species and its lichen-supporting bark characteristics (e.g. pH, roughness and water retention capacity). But further works on bark characteristics of phorophyte was lacking. Research work on lichen and their host specificity might help to know which host plant is habitat of different lichen species, which host plants are most important for rare corticolous lichens and thus it will contribute in scientific management of forest through recommendation of these plants during afforestation program as well as provide scientific reason to restrict to cut particular plants from forest and thus might contribute to conserve and enhance lichen diversity.

Lichens are one among the protected medicinal plant. According to Kala (2003) lichens were one of the major traded MAPs of Baitadi till 2011. For the regulation of lichen trade from Nepal, the Government of Nepal has imposed many provisions. According to Rule 11 of Forest Regulations, 1995, for collection of lichen from any forest area, application to the authorized officer should be submitted mentioning area of collection, the quantatity and the purpose of collection. As mentioned in Annex 3 of Forest Regulation, 1995, charges for lichens collection is 10/ kg. The Authorized Officer tally the lichen collected according to the Licence issued for their, check their quantities and collect fees as prescribed in Annex-3. Despite the present regulations on lichen collection, illegal coolection and trade of lichens with no documentation of population sizes, carrying capacity of forests or species identities, and no application of scientific tools or management are going on (Devkota et al., 2017b).

Conclusion

Present study reviewed lichen research works done in Nepal till 2020. Many geographical parts of Nepal especially the lowland Terai, Siwalik Hills and almost whole western Nepal remain largely unexplored. Although, in early and mid period of lichen exploration, major contribution was given by foreign lichenologists, in recent period many Nepalese lichenologists are active to explore different parts of Nepal. However many research works are limited up to collection, identification and documentation. Altogether 873 taxa including 805 species, 46 varieties, 10 subspecies, 12 forma belonging to 185 genera and 61 families have been recorded based on previous published literatures. Host lichen specificity and relationship between species richness and environmental variables have not much focused yet. These types of studies are important to explore.

Author Contributions

Both the authors have contributed in giving final shape of this article. Dr. C. B. Baniya is a corresponding author as well as guarantor for this article.

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Table 1: List of taxa of Lichens of Nepal based on Olley and Sharma (2013), Rai et al. (2016), Devkota et al. (2017a) and Karmacharya et al. (2018)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
1	*Acroscyphus sphaerophoroides* Lév.		Caliciaceae	Olley and Sharma (2013)
2	*Acarospora fusca* B. de Lesd		Acarosporaceae	Rai et al. (2016)
3	*Agonimia tristicula* (Nyl.) Zahlbr.		Verrucariaceae	Olley and Sharma (2013)
4	*Alectoria himalayana* Motyka		Parmeliaceae	Olley and Sharma (2013)
5	*Alectoria jubata* Ach.		Parmeliaceae	Olley and Sharma (2013)
6	*Alectoria ochroleuca* (Hoffm.) A.Massal.		Parmeliaceae	Olley and Sharma (2013)
7	*Alectoria sarmentosa* (Ach.) Ach.		Parmeliaceae	Olley and Sharma (2013)
8	*Allocetraria ambigua* (C.Bab.) Kurok. & M.J.Lai		Parmeliaceae	Olley and Sharma (2013)
9	*Allocetraria flavonigrescens* Thell. & Randlane	*Cetraria flavonigrescens* (A.Thell & Randlane) Divakar, A.Crespo & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
10	*Allocetraria globulans* (Nyl.) Thell. & Randlane		Parmeliaceae	Olley and Sharma (2013)
11	*Allocetraria oakesiana* (Tuck.) Randlane & Thell.	*Usnocetraria oakesiana* (Tuck.) M.J.Lai & J.C.Wei	Parmeliaceae	Olley and Sharma (2013)
12	*Allocetraria sinensis* X.Q.Gao	*Cetraria sinensis* (X.Q.Gao) Divakar, A.Crespo & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
13	*Allocetraria stracheyi* (Bab.) Kurok. & M.J. Lai	*Nephromopsis stracheyi* (C.Bab.) Müll.Arg.	Parmeliaceae	Olley and Sharma (2013)
14	*Amandinea punctata* (Hoffm.) Coppins & Schied.		Caliciaceae	Olley and Sharma (2013)
15	*Amygdalaria aeolotera* (Vain.) Hertel & Brodo		Lecideaceae	Olley and Sharma (2013)
16	*Anamylopsora pulcherrima* (Vain.) Timdal		Baeomycetaceae	Olley and Sharma (2013)
17	*Anaptychia boryi* (Fée) A.Massal.	*Leucodermia boryi* (Fée) Kalb	Physciaceae	Olley and Sharma (2013)
18	*Anaptychia bryorum* Poelt		Physciaceae	Olley and Sharma (2013)
19	*Anaptychia chondroidea* (W.A.Weber & D.D.Awasthi) Kurok.	*Heterodermia chondroidea* W.Weber & Awasthi	Physciaceae	Olley and Sharma (2013)
20	*Anaptychia dectyliza* forma serpens (Vain.) Kurok.		Physciaceae	Olley and Sharma (2013)
21	*Anaptychia esorediata* (Vain.) Du Rietz & Lynge		Physciaceae	Olley and Sharma (2013)
22	*Anaptychia firmula* (Nyl.) C.W.Dodge & D.D. Awasthi		Physciaceae	Olley and Sharma (2013)
23	*Anaptychia hypoleuca* var. diademata (Tayl.) Zahlbr.		Physciaceae	Olley and Sharma (2013)
24	*Anaptychia isidiophora* (Nyl.) Vain.	*Heterodermia isidiophora* (Nyl.) D.D.Awasthi	Physciaceae	Olley and Sharma (2013)
25	*Anaptychia leucomelaena* var. angustifolia (Meyen & Flot.) Müll. Arg.		Physciaceae	Olley and Sharma (2013)
26	*Anaptychia neoleucomelaena* forma squarrosa (Vain.) Kurok.		Physciaceae	Olley and Sharma (2013)
27	*Anaptychia pseudospeciosa* var. tremulans (Müll. Arg.) Kurok.		Physciaceae	Olley and Sharma (2013)
28	*Anaptychia speciosa* forma compactior Zahlbr.		Physciaceae	Olley and Sharma (2013)
29	*Anisomeridium* sp.		Monoblastiaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
30	*Anthracothecium himalayense* (Räsänen) D.D.Awasthi		Pyrenulaceae	Olley and Sharma (2013)
31	*Anthracothecium leucostomum* Ach.		Pyrenulaceae	Olley and Sharma (2013)
32	*Arctocetraria nigricascens* (Nyl.) Karnefelt & Thell.	*Nephromopsis nigricascens* (Nyl.) Divakar, A.Crespo & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
33	*Arctoparmelia subcentrifuga* (Oxner) Hale		Parmeliaceae	Olley and Sharma (2013)
34	*Arthonia destruens* var. *nana* Grube & Hafellner		Arthoniaceae	Olley and Sharma (2013)
35	*Arthonia recedens* Stirt.		Arthoniaceae	Rai et al. (2016)
36	*Arthrorhaphis alpina* (Schaer.) R.Sant.		Arthrorhaphidaceae	Olley and Sharma (2013)
37	*Arthrorhaphis citrinella* (Ach.) Poelt		Arthrorhaphidaceae	Olley and Sharma (2013)
38	*Arthrorhaphis vacillans* Th.Fr. & Almq. ex Th.Fr.		Arthrorhaphidaceae	Olley and Sharma (2013)
39	*Aspicilia cinerea* (L.) Körb.		Megasporaceae	Olley and Sharma (2013)
40	*Awasthia melanotricha* (D.D.Awasthi) Essl.		Physciaceae	Olley and Sharma (2013)
41	*Bacidia millegrana* var. *millegrana* (Taylor) Zahlbr.		Ramalinaceae	Olley and Sharma (2013)
42	*Bacidia nigrofusca* (Müll.Arg.) Zahlbr.		Ramalinaceae	Olley and Sharma (2013)
43	*Bacidia personata* Malme		Ramalinaceae	Olley and Sharma (2013)
44	*Bacidia rubella* (Hoffm.) A.Massal.		Ramalinaceae	Olley and Sharma (2013)
45	*Bacidia subannexa* (Nyl.) Zahlbr		Ramalinaceae	Rai et al. (2016)
46	*Bacidia spadicea* (Ach.) Zahlbr.		Ramalinaceae	Olley and Sharma (2013)
47	*Bacidia subincompta* (Nyl.) Arnold	*Toniniopsis subincompta* (Nyl.) Kistenich, Timdal, Bendiksby & S.Ekman	Ramalinaceae	Olley and Sharma (2013)
48	*Bacidia vermifera* (Nyl.) Th.Fr.	*Bibbya vermifera* (Nyl.) Kistenich, Timdal, Bendiksby & S.Ekman	Ramalinaceae	Olley and Sharma (2013)
49	*Baeomyces pachypus* Nyl.		Baeomycetaceae	Olley and Sharma (2013)
50	*Baeomyces placophyllus* (Lam.) Ach.		Baeomycetaceae	Olley and Sharma (2013)
51	*Baeomyces roseus* Pers.	*Dibaeis rosea* (Pers.) Clem.	Icmadophilaceae	Olley and Sharma (2013)
52	*Bellemerea cinereorufescens* (Ach.) Clauzade & Cl.Roux		Lecideaceae	Olley and Sharma (2013)
53	*Biatora carneoalbida* (Müll.Arg.) Coppins		Ramalinaceae	Olley and Sharma (2013)
54	*Bryonora castanea* var. *castanea* (E. Hepp) Poelt		Lecanoraceae	Olley and Sharma (2013)
55	*Bryonora castanea* var. *euryspora* Poelt & Obermayer		Lecanoraceae	Olley and Sharma (2013)
56	*Bryonora curvescens* (Mudd) Poelt		Lecanoraceae	Olley and Sharma (2013)
57	*Bryonora pulvinar* var. *microspora* Poelt & Obermayer		Lecanoraceae	Olley and Sharma (2013)
58	*Bryonora pulvinar* var. *pulvinar* Poelt & Obermayer		Lecanoraceae	Olley and Sharma (2013)
59	*Bryonora reducta* Poelt & H. Mayrhofer		Lecanoraceae	Olley and Sharma (2013)
60	*Bryonora rhypariza* var. *cyanotropha* Poelt & H. Mayrhofer		Lecanoraceae	Olley and Sharma (2013)
61	*Bryonora rhypariza* var. *lamaina* Poelt		Lecanoraceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
62	Bryonora rhypariza var. rhypariza (Nyl.) Poelt		Lecanoraceae	Olley and Sharma (2013)
63	*Bryonora selenospora* Poelt & H. Mayrhofer	*Bryodina selenospora* (Poelt & H. Mayrhofer) Hafellner	Lecanoraceae	Olley and Sharma (2013)
64	*Bryonora stipitata* Poelt		Lecanoraceae	Olley and Sharma (2013)
65	*Bryonora yeti* Poelt		Lecanoraceae	Olley and Sharma (2013)
66	*Bryoria acanthodes* (Hue) Bystrek	Alectoria acanthodes Hue	Parmeliaceae	Olley and Sharma (2013)
67	*Bryoria bicolor* (Ehrh.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
68	*Bryoria confusa* (D.D.Awasthi) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
69	*Bryoria furcellata* (Fr.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
70	*Bryoria himalayana* (Motyka) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
71	*Bryoria implexa* (Hoffm.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
72	*Bryoria lactinea* (Nyl.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
73	*Bryoria lanestris* (Ach.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
74	*Bryoria levis* Awas.		Parmeliaceae	Olley and Sharma (2013)
75	*Bryoria nadvornikiana* (Gyeln.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
76	*Bryoria nepalensis* Awas.		Parmeliaceae	Olley and Sharma (2013)
77	*Bryoria nitidula* (Th.Fr.) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
78	*Bryoria perspinosa* (Bystrek) Brodo & D. Hawksw.		Parmeliaceae	Olley and Sharma (2013)
79	*Bryoria poeltii* (Bystrek) Brodo & D.Hawksw.		Parmeliaceae	Olley and Sharma (2013)
80	*Bryoria smithii* (Du Rietz) Brodo & D.Hawksw.		Parmeliaceae	Olley and Sharma (2013)
81	*Bryoria tenuis* (Å.E.Dahl) Brodo & D.Hawksw.		Parmeliaceae	Olley and Sharma (2013)
82	*Bryoria variabilis* (Bystrek) Bystrek		Parmeliaceae	Olley and Sharma (2013)
83	*Buellia aethalea* (Ach.) Th. Fr		Caliciaceae	Rai et al. (2016)
84	*Buellia disciformis* (Fr.) Mudd		Caliciaceae	Rai et al. (2016)
85	*Buellia disjecta* Zahlbr		Caliciaceae	Rai et al. (2016)
86	*Buellia elegans* Poelt & Sulzer		Caliciaceae	Olley and Sharma (2013)
87	*Buellia geophila* (Flörke) Lynge		Caliciaceae	Olley and Sharma (2013)
88	*Buellia granularis* Müll.Arg.		Caliciaceae	Olley and Sharma (2013)
89	*Buellia inornata* (Stirt.) Zahlbr.		Caliciaceae	Olley and Sharma (2013)
90	*Buellia papillata* (Sommerf.) Tuck.	*Tetramelas papillatus* (Sommerf.) Kalb	Caliciaceae	Olley and Sharma (2013)
91	*Buellia schaereri* De Not.		Caliciaceae	Olley and Sharma (2013)
92	*Bulbothrix isidiza* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
93	*Bulbothrix meizospora* ((Nyl.) Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
94	*Bulbothrix setschwanensis* (Zahlbr.) Hale		Parmeliaceae	Olley and Sharma (2013)
95	*Bulbothrix tabacina* (Mont. & Bosch) Hale		Parmeliaceae	Olley and Sharma (2013)
96	*Calicium abietinum* Pers.		Caliciaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
97	*Calicium chlorosporum* F.Wilson		Caliciaceae	Olley and Sharma (2013)
98	*Calicium lenticulare* Ach.		Caliciaceae	Olley and Sharma (2013)
99	*Calicium nobile* Tibell		Caliciaceae	Olley and Sharma (2013)
100	*Calicium parvum* Tibell		Caliciaceae	Olley and Sharma (2013)
101	*Calicium quercinum* Pers.		Caliciaceae	Olley and Sharma (2013)
102	*Calicium salicinum* Pers.		Caliciaceae	Olley and Sharma (2013)
103	*Calicium verrucosum* Tibell		Caliciaceae	Olley and Sharma (2013)
104	*Calicium viride* Pers.		Caliciaceae	Olley and Sharma (2013)
105	*Caloplaca arnoldii* (Wedd.) Zahlbr. ex Ginzb.		Teloschistaceae	Olley and Sharma (2013)
106	*Caloplaca aureosora* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
107	*Caloplaca borealis* var. *borealis* Poelt		Teloschistaceae	Olley and Sharma (2013)
108	*Caloplaca borealis* var. *oligosperma* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
109	*Caloplaca castellana* (Räsänen) Poelt	*Pachypeltis castellana* (Räsänen) Søchting, Frödén & Arup	Teloschistaceae	Olley and Sharma (2013)
110	*Caloplaca cerina* var. *cerina* (Ehrh. ex Hedw.) Th.Fr.		Teloschistaceae	Olley and Sharma (2013)
111	*Caloplaca cerina* var. *chloroleuca* (Sm.) Th.Fr.		Teloschistaceae	Olley and Sharma (2013)
112	*Caloplaca cerinopsis* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
113	*Caloplaca cirrochroa* (Ach.) Th.Fr.		Teloschistaceae	Olley and Sharma (2013)
114	*Caloplaca cirrochroopsis* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
115	*Caloplaca citrina* (Hoffm.) Th.Fr.	*Flavoplaca citrina* (Hoffm.) Arup, Frödén & Søchting	Teloschistaceae	Olley and Sharma (2013)
116	*Caloplaca cupreobrunnea* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
117	*Caloplaca cupulata* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
118	*Caloplaca epiphyta* Lynge	*Gyalolechia epiphyta* (Lynge) Vondrák	Teloschistaceae	Olley and Sharma (2013)
119	*Caloplaca epithallina* Lynge		Teloschistaceae	Olley and Sharma (2013)
120	*Caloplaca exsecuta* var. *aphanes* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
121	*Caloplaca farinosa* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
122	*Caloplaca flavorubescens* (Huds.) J.R. Laundon	*Gyalolechia flavorubescens* (Huds.) Søchting, Frödén & Arup	Teloschistaceae	Olley and Sharma (2013)
123	*Caloplaca frigida* (Paulson) Zahlbr.		Teloschistaceae	Olley and Sharma (2013)
124	*Caloplaca grimmiae* (Nyl.) H.Olivier		Teloschistaceae	Olley and Sharma (2013)
125	*Caloplaca holocarpa* A.E.Wade	*Athallia holocarpa* (Hoffm.) Arup, Frödén & Søchting	Teloschistaceae	Olley and Sharma (2013)
126	*Caloplaca holochracea* (Nyl.) Zahlbr.		Teloschistaceae	Olley and Sharma (2013)
127	*Caloplaca insularis* Poelt		Teloschistaceae	Olley and Sharma (2013)
128	*Caloplaca isabellina* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
129	*Caloplaca leptocheila* H. Magn		Teloschistaceae	Olley and Sharma (2013)
130	*Caloplaca lithophila* H. Magn		Teloschistaceae	Olley and Sharma (2013)
131	*Caloplaca lobulascens* Poelt & E.		Teloschistaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	Hinteregger			
132	*Caloplaca lypera* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
133	*Caloplaca maura* Poelt & E.Hinteregger		Teloschistaceae	Olley and Sharma (2013)
134	*Caloplaca obliterans* (Nyl.) Blomb. & Forssell	*Leproplaca obliterans* (Nyl.) Arup, Frödén & Søchting	Teloschistaceae	Olley and Sharma (2013)
135	*Caloplaca ochroplaca* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
136	*Caloplaca phoenicopt*a Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
137	*Caloplaca praeruptorum* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
138	*Caloplaca procerispora* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
139	*Caloplaca rinodinopsis* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
140	*Caloplaca sancta* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
141	*Caloplaca saxicola* var. *chamaeleon* Poelt & E. Hinteregger		Teloschistaceae	Olley and Sharma (2013)
142	*Caloplaca saxicola* var. *saxicola* Nordin		Teloschistaceae	Olley and Sharma (2013)
143	*Caloplaca saxifragarum* Poelt	*Athallia saxifragarum* (Poelt) Arup, Frödén & Søchting	Teloschistaceae	Olley and Sharma (2013)
144	*Caloplaca tetraspora* (Nyl.) H.Olivier	*Bryoplaca tetraspora* (Nyl.) Søchting, Frödén & Arup	Teloschistaceae	Olley and Sharma (2013)
145	*Caloplaca ulcerata* de Lesd.		Teloschistaceae	Olley and Sharma (2013)
146	*Caloplaca variabilis* (Pers.) Müll.Arg.	*Pyrenodesmia variabilis* (Pers.) A.Massal.	Teloschistaceae	Olley and Sharma (2013)
147	*Calvitimela aglaea* (Sommerf.) Hafellner		Tephromelataceae	Olley and Sharma (2013)
148	*Calvitimela armeniaca* (DC.) Hafellner		Tephromelataceae	Olley and Sharma (2013)
149	*Candelaria crawfordii* P.M. Jørg. & Galloway		Candelariaceae	Olley and Sharma (2013)
150	*Candelaria sphaerobola* Poelt & Reddi		Candelariaceae	Olley and Sharma (2013)
151	*Candelariella aurella* forma *aurella* (Hoffm.) Zahlbr.		Candelariaceae	Olley and Sharma (2013)
152	*Candelariella coralliza* (Nyl.) H.Magn		Candelariaceae	Olley and Sharma (2013)
153	*Candelariella grimmiae* Poelt & Reddi		Candelariaceae	Olley and Sharma (2013)
154	*Candelariella himalayana* Poelt & Reddi		Candelariaceae	Olley and Sharma (2013)
155	*Candelariella nepalensis* Poelt & Reddi		Candelariaceae	Olley and Sharma (2013)
156	*Candelariella sorediosa* Poelt & Reddi		Candelariaceae	Olley and Sharma (2013)
157	*Candelariella vitellina* forma *vitellina* (Ehrh.) Müll. Arg.		Candelariaceae	Olley and Sharma (2013)
158	*Candelariella vitellina* var. *glacialis* Poelt & Reddi		Candelariaceae	Olley and Sharma (2013)
159	*Candelariella xanthostigma* (Pers. ex		Candelariaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	Ach.) Lettau			
160	*Canomaculina subsumpta* (Nyl.) Elix	*Parmotrema subsumptum* (Nyl.) Hale	Parmeliaceae	Olley and Sharma (2013)
161	*Canomaculina subtinctoria* (Zahlbr.) Elix	*Parmotrema subtinctorium* (Zahlbr.) Hale	Parmeliaceae	Olley and Sharma (2013)
162	*Canoparmelia aptata* (Kremp.) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
163	*Canoparmelia ecaperata* (Müll.Arg.) Elix & Hale	*Pseudoparmelia ecaperata* (Müll.Arg.) Hale	Parmeliaceae	Olley and Sharma (2013)
164	*Canoparmelia eruptens* (Kurok.) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
165	*Canoparmelia pustulescens* (Kurok.) Elix		Parmeliaceae	Rai et al. (2016)
166	*Carbonea assimilis* ((Körb.) Th.Fr.) Hafellner & Hertel		Lecanoraceae	Olley and Sharma (2013)
167	*Carbonea vitellinaria* (Nyl.) Hertel		Lecanoraceae	Olley and Sharma (2013)
168	*Carbonea vorticosa* (Flörke) Hertel		Lecanoraceae	Olley and Sharma (2013)
169	*Catapyrenium cinereum* (Pers.) Körb.		Verrucariaceae	Olley and Sharma (2013)
170	*Catapyrenium daedalium* (Kremp.) Stein		Verrucariaceae	Olley and Sharma (2013)
171	*Catapyrenium squamulosum* (Ach.) Breuss		Verrucariaceae	Olley and Sharma (2013)
172	*Catillaria leptocheiloides* (Nyl.) Zahlbr.		Catillariaceae	Olley and Sharma (2013)
173	*Catillaria sikkimensis* (Müll.Arg.) Zahlbr.		Catillariaceae	Olley and Sharma (2013)
174	*Catolechia wahlenbergii* (Flot. ex Ach.) Körb.		Rhizocarpaceae	Olley and Sharma (2013)
175	*Cetraria aculeata* (Schreb.) Fr.		Parmeliaceae	Olley and Sharma (2013)
176	*Cetraria collata* forma *isidiata* Asahina		Parmeliaceae	Olley and Sharma (2013)
177	*Cetraria crispa* var. *japonica* Asahina ex M.Satô		Parmeliaceae	Olley and Sharma (2013)
178	*Cetraria delavayi* (Hue) M.Satô	*Nephromopsis delavayi* Hue	Parmeliaceae	Olley and Sharma (2013)
179	*Cetraria ericetorum* Opiz		Parmeliaceae	Olley and Sharma (2013)
180	*Cetraria everniella* forma *subteres* Asahina		Parmeliaceae	Olley and Sharma (2013)
181	*Cetraria islandica* (L.) Ach.		Parmeliaceae	Olley and Sharma (2013)
182	*Cetraria laevigata* Rass.		Parmeliaceae	Olley and Sharma (2013)
183	*Cetraria nepalensis* Awas.		Parmeliaceae	Olley and Sharma (2013)
184	*Cetraria nephromoides* (Nyl.) D.D.Awasthi	*Nephromopsis nephromoides* (Nyl.) Ahti & Randlane	Parmeliaceae	Olley and Sharma (2013)
185	*Cetraria nigricans* var. *himalayana* Asahina		Parmeliaceae	Olley and Sharma (2013)
186	*Cetrariopsis pallescens* (Schaer.) Thell. & Randlane		Parmeliaceae	Olley and Sharma (2013)
187	*Cetrariopsis wallichiana* (Tayl.) Kurok.		Parmeliaceae	Olley and Sharma (2013)
188	*Cetrelia braunsiana* (Müll.Arg.) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
189	*Cetrelia cetrarioides* (Delise) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
190	*Cetrelia collata* (Nyl.) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
191	*Cetrelia isidiata* (Asahina) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
192	*Cetrelia nuda* (Hue) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
193	*Cetrelia olivetorum* (Nyl.) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
194	*Cetrelia pseudolivetorum* (Asahina) W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
195	*Cetrelia sanguinea* (W.L.Culb. & C.F.Culb.) Schaer.		Parmeliaceae	Olley and Sharma (2013)
196	*Cetrelia sinensis* W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
197	*Cetreliopsis endoxanthoides* (D.D.Awasthi) Randlane & Saag		Parmeliaceae	Olley and Sharma (2013)
198	*Cetreliopsis laeteflava* (Zahlbr.) Randlane & Saag	*Nephromopsis laeteflava* (Zahlbr.) Divakar, A.Crespo & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
199	*Cetreliopsis rhytidocarpa* (Mont. & Bosch) M.J.Lai		Parmeliaceae	Olley and Sharma (2013)
200	*Cetreliopsis rhytidocarpa* subsp. *langtanii* Randlane & Saag		Parmeliaceae	Olley and Sharma (2013)
201	*Chaenotheca brunneola* (Ach.) Müll.Arg.		Coniocybaceae	Olley and Sharma (2013)
202	*Chaenotheca chlorella* (Ach.) Müll.Arg.		Coniocybaceae	Olley and Sharma (2013)
203	*Chaenotheca chrysocephala* (Turner ex Ach.) Th.Fr.		Coniocybaceae	Olley and Sharma (2013)
204	*Chaenotheca furfuracea* (L.) Tibell		Coniocybaceae	Olley and Sharma (2013)
205	*Chaenotheca hispidula* (Ach.) Zahlbr.		Coniocybaceae	Olley and Sharma (2013)
206	*Chaenotheca phaeocephala* (Turner) Th.Fr.		Coniocybaceae	Olley and Sharma (2013)
207	*Chaenotheca phaeocephala* subsp. *alpina* (Nádv.) Alb.Schmidt		Coniocybaceae	Olley and Sharma (2013)
208	*Chaenotheca stemonea* (Ach.) Müll.Arg.		Coniocybaceae	Olley and Sharma (2013)
209	*Chaenotheca trichialis* (Ach.) Th.Fr.		Coniocybaceae	Olley and Sharma (2013)
210	*Chaenothecopsis consociata* (Nádv.) Alb.Schmidt		Mycocaliciaceae	Olley and Sharma (2013)
211	*Chaenothecopsis nana* Tibell		Mycocaliciaceae	Olley and Sharma (2013)
212	*Chaenothecopsis nigra* Tibell		Mycocaliciaceae	Olley and Sharma (2013)
213	*Chaenothecopsis pusilla* (Ach.) A.F.W.Schmidt		Mycocaliciaceae	Olley and Sharma (2013)
214	*Chaenothecopsis savonica* (Räsänen) Tibell		Mycocaliciaceae	Olley and Sharma (2013)
215	*Chaenothecopsis viridialba* (Kremp.) A.F.W.Schmidt		Mycocaliciaceae	Olley and Sharma (2013)
216	*Chrysothrix chlorina* (Ach.) J.R. Laundon		Chrysotrichaceae	Olley and Sharma (2013)
217	*Chrysothrix candelaris* (L.) J.R. Laundon		Chrysothrichaceae	Rai et al. (2016)
218	Cladia aggregata (Sw.) Nyl.		Cladoniaceae	Olley and Sharma (2013)
219	*Cladina arbuscula* subsp. *beringiana* (Ahti) N.S.Golubk.		Cladoniaceae	Olley and Sharma (2013)
220	*Cladonia amaurocraea* (Flörke)		Cladoniaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	Schaer.			
221	*Cladonia arbuscula* (Wallr.) Hale & W.L.Culb.		Cladoniaceae	Olley and Sharma (2013)
222	*Cladonia awasthiana* Ahti & Upreti		Cladoniaceae	Olley and Sharma (2013)
223	*Cladonia calyciformis* Nuno		Cladoniaceae	Olley and Sharma (2013)
224	*Cladonia cariosa* (Ach.) Spreng.		Cladoniaceae	Olley and Sharma (2013)
225	*Cladonia carneola* (Fr.) Fr.		Cladoniaceae	Olley and Sharma (2013)
226	*Cladonia cartilaginea* Müll.Arg.		Cladoniaceae	Olley and Sharma (2013)
227	*Cladonia ceratophyllina* (Nyl.) Vain.		Cladoniaceae	Olley and Sharma (2013)
228	*Cladonia chlorophaea* (Flörke ex Sommerf.) Spreng.		Cladoniaceae	Olley and Sharma (2013)
229	*Cladonia ciliata* var. *tenuis* (Flörke) Nimis		Cladoniaceae	Olley and Sharma (2013)
230	*Cladonia coccifera* (L.) Willd.		Cladoniaceae	Olley and Sharma (2013)
231	*Cladonia coniocraea* (Flo¨rke) Spreng.		Cladoniaceae	Rai et al. (2016)
232	*Cladonia corniculata* Ahti & Kashiw.		Cladoniaceae	Olley and Sharma (2013)
233	*Cladonia corymbescens* Nyl. ex F.M.Leight.		Cladoniaceae	Olley and Sharma (2013)
234	*Cladonia delavayi* Abbayes		Cladoniaceae	Olley and Sharma (2013)
235	*Cladonia didyma* (Fée) Vain.		Cladoniaceae	Olley and Sharma (2013)
236	*Cladonia fenestralis* Nuno		Cladoniaceae	Olley and Sharma (2013)
237	*Cladonia fimbriata* var. *ambigua* Asahina		Cladoniaceae	Olley and Sharma (2013)
238	*Cladonia fruticulosa* Kremp.		Cladoniaceae	Olley and Sharma (2013)
239	*Cladonia furcata* (Huds.) Schrad.		Cladoniaceae	Olley and Sharma (2013)
240	*Cladonia laii* S.Stenroos		Cladoniaceae	Olley and Sharma (2013)
241	*Cladonia luteoalba* Wheldon & A.Wilson		Cladoniaceae	Olley and Sharma (2013)
242	*Cladonia macilenta* (Hoffm.) Nyl.		Cladoniaceae	Olley and Sharma (2013)
243	*Cladonia macilenta* var. *bacillaris* (Genth) Schaer.		Cladoniaceae	Olley and Sharma (2013)
244	*Cladonia macroptera* Räsänen		Cladoniaceae	Olley and Sharma (2013)
245	*Cladonia mongolica* Ahti		Cladoniaceae	Olley and Sharma (2013)
246	*Cladonia nitens* Ahti		Cladoniaceae	Olley and Sharma (2013)
247	*Cladonia ochrochlora* Flörke		Cladoniaceae	Olley and Sharma (2013)
248	*Cladonia pocillum* (Ach.) Grognot		Cladoniaceae	Olley and Sharma (2013)
249	*Cladonia pyxidata* (L.) Hoffm.		Cladoniaceae	Olley and Sharma (2013)
250	*Cladonia ramulosa* (With.) J.R. Laundon		Cladoniaceae	Olley and Sharma (2013)
251	*Cladonia rangiferina* (L.) Weber ex F.H.Wigg.		Cladoniaceae	Olley and Sharma (2013)
252	*Cladonia scabriuscula* (Delise) Nyl.		Cladoniaceae	Olley and Sharma (2013)
253	*Cladonia singhii* Ahti & R.D.Dixit		Cladoniaceae	Olley and Sharma (2013)
254	*Cladonia squamosa* Rabenh.		Cladoniaceae	Olley and Sharma (2013)
255	*Cladonia squamosa* var. *subsquamosa* (Nyl.) Th.Fr.		Cladoniaceae	Olley and Sharma (2013)
256	*Cladonia stellaris* (Opiz) Pouzar & Vezda		Cladoniaceae	Olley and Sharma (2013)
257	*Cladonia subconistea* Asahina		Cladoniaceae	Olley and Sharma (2013)
258	*Cladonia yunnana* (Vainio) des Abb.		Cladoniaceae	Olley and Sharma (2013)
259	*Cliostomum leprosum* (Räsänen) Holien & Tønsberg		Ramalinaceae	Olley and Sharma (2013)
260	*Coccocarpia erythroxyli* (Spreng.)		Ramalinaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	Swinscow & Krog			
261	*Coccocarpia palmicola* (Spreng.) Arv. & Galloway		Coccocarpiaceae	Olley and Sharma (2013)
262	*Coccocarpia pellita* (Ach.) Müll.Arg.		Coccocarpiaceae	Olley and Sharma (2013)
263	*Coenogonium moniliforme* Tuck.		Coenogoniaceae	Olley and Sharma (2013)
264	*Coenogonium subluteum* (Rehm) Kalb & Lücking		Coenogoniaceae	Olley and Sharma (2013)
265	*Collema callibotrys* var. callibotrys Tuck.		Collemataceae	Olley and Sharma (2013)
266	*Collema callibotrys* var. coccophyllizum (Zahlbr.) Degel.		Collemataceae	Olley and Sharma (2013)
267	*Collema cristatum* (L.) Weber ex F.H. Wigg.		Collemataceae	Rai et al. (2016)
268	*Collema japonicum* (Müll.Arg.) Hue		Collemataceae	Olley and Sharma (2013)
269	*Collema leptaleum* var. biliosum (Mont.) Degel.		Collemataceae	Olley and Sharma (2013)
270	*Collema leptaleum* var. leptaleum Tuck.		Collemataceae	Olley and Sharma (2013)
271	*Collema nepalense* Degel.		Collemataceae	Olley and Sharma (2013)
272	*Collema poeltii* Degel.	*Lathagrium poeltii* (Degel.) Otálora, P.M.Jørg. & Wedin	Collemataceae	Olley and Sharma (2013)
273	*Collema pulcellum* Ach.		Collemataceae	Olley and Sharma (2013)
274	*Collema pulcellum* var. *subnigrescens* (Müll.Arg.) Degel.		Collemataceae	Olley and Sharma (2013)
275	*Collema rugosum* Kremp.		Collemataceae	Olley and Sharma (2013)
276	*Collema subconveniens* Nyl.		Collemataceae	Olley and Sharma (2013)
277	*Collema subflaccidum* Degel.		Collemataceae	Olley and Sharma (2013)
278	*Collema substipitatum* Zahlbr.		Collemataceae	Olley and Sharma (2013)
279	*Dermatocarpon miniatum* (L.)		Verrucariaceae	Olley and Sharma (2013)
280	*Dermatocarpon vellereum* Zschacke		Verrucariaceae	Olley and Sharma (2013)
281	*Dimelaena oreina* (Ach.) Norman		Caliciaceae	Olley and Sharma (2013)
282	*Dimerella isidiata* G.Thor & Vezda	*Coenogonium isidiatum* (G.Thor & Vězda) Lücking, Aptroot & Sipman	Coenogoniaceae	Olley and Sharma (2013)
283	*Dimerella lutea* (Dicks.) Trevis.	*Coenogonium luteum* (Dicks.) Kalb & Luking	Coenogoniaceae	Olley and Sharma (2013)
284	*Dimerella nepalensis* G.Thor & Vezda	*Coenogonium nepalense* (G.Thor & Vězda) Lücking, Aptroot & Sipman	Coenogoniaceae	Olley and Sharma (2013)
285	*Dimerella pineti* (Ach.) Vezda	*Coenogonium pineti* (Ach.) Lucking & Lumbsch	Coenogoniaceae	Olley and Sharma (2013)
286	*Diorygma hieroglyphicum* (Pers.) Staiger & Kalb		Graphidaceae	Karmacharya et al., (2018)
287	*Diorygma junghuhnii* (Mont. & Bosch) Kalb, Staiger & Elix		Graphidaceae	Karmacharya et al., (2018)
288	*Diploicia wahlenbergii* (Ach.) S. Singh		Caliciaceae	Olley and Sharma (2013)
289	*Diploschistes gypsaceus* (Ach.) Zahlbr.		Graphidaceae	Olley and Sharma (2013)
290	*Diploschistes muscorum* (Scop.) R.Sant.		Graphidaceae	Olley and Sharma (2013)
291	*Diploschistes muscorum* subsp. *bartlettii* Lumbsch		Graphidaceae	Olley and Sharma (2013)
292	*Diploschistes muscorum* subsp.		Graphidaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	muscorum (Scop.) R.Sant.			
293	*Diploschistes nepalensis* Pant & Upreti		Graphidaceae	Olley and Sharma (2013)
294	*Diploschistes scruposus* (Schreb.) Norman		Graphidaceae	Olley and Sharma (2013)
295	*Diploschistes scruposus* var. *bryophilus* (Schreb.) Ehrh.		Graphidaceae	Olley and Sharma (2013)
296	*Diplotomma epipolium* forma *epopolium* (Ach.) Arnold		Caliciaceae	Olley and Sharma (2013)
297	*Diplotomma megasporum* S.R.Singh & D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
298	*Dirinaria aegialita* (Afzel. ex Ach.) B.J.Moore		Caliciaceae	Olley and Sharma (2013)
299	*Dirinaria applanata* (Fée) D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
300	*Dirinaria applanta* var. *endochroma* (H.Magn & Awas.) D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
301	*Dirinaria confluens* (Fr.) D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
302	*Dirinaria consimilis* (Stirt.) D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
303	*Endocarpon* sp.		Verrucariaceae	Olley and Sharma (2013)
304	*Endocarpon subrosettum* Ajay Singh and Upreti		Verrucariaceae	Rai et al. (2016)
305	*Erioderma meiocarpum* Nyl.		Pannariaceae	Olley and Sharma (2013)
306	*Everniastrum cirrhatum* (Fr.) Hale ex Shipman	*Hypotrachyna cirrhata* (Fr.) Divakar, A.Crespo, Sipman, Elix & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
307	*Everniastrum nepalense* (Taylor) Hale ex Shipman	*Hypotrachyna nepalensis* (Taylor) Divakar, A.Crespo, Sipman, Elix & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
308	*Everniastrum rhizodendroideum* (Y.J. Yao & C.L.Jiang) Sipman	*Hypotrachyna rhizodendroidea* (J.C.Wei & Y.M.Jiang) Divakar, A.Crespo, Sipman, Elix & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
309	*Everniastrum sorocheilum* (Vain.) Hale ex Sipman	*Hypotrachyna sorocheila* (Vain.) Divakar, A.Crespo, Sipman, Elix & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
310	*Fellhanera* sp.		Pilocarpaceae	Olley and Sharma (2013)
311	*Flavocetraria cucullata* (Bellardi) Karnefelt & Thell.	*Nephromopsis cucullata* (Bellardi) Divakar, A.Crespo & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
312	*Flavocetraria nivalis* (L.) Karnefelt & Thell.	*Nephromopsis nivalis* (L.) Divakar, A.Crespo & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
313	*Flavocetrariella leucostigma* (Lév.) D.D.Awasthi		Parmeliaceae	Olley and Sharma (2013)
314	*Flavocetrariella melaloma* (Nyl.) D.D.Awasthi	Nephromopsis melaloma (Nyl.) A.Thell & Randlane	Parmeliaceae	Olley and Sharma (2013)
315	*Flavoparmelia caperata* (L.) Hale		Parmeliaceae	Olley and Sharma (2013)
316	*Flavopunctelia flaventior* (Stirt.) Hale		Parmeliaceae	Olley and Sharma (2013)
317	*Flavopunctelia soredica* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
318	*Frutidella caesioatra* (Schaer.) Kalb		Ramalinaceae	Olley and Sharma (2013)
319	*Fuscopannaria coerulescens* P.M. Jørg.		Pannariaceae	Olley and Sharma (2013)
320	*Fuscopannaria poeltii* (P.M. Jørg.)		Pannariaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	P.M. Jørg.			
321	*Fuscopannaria praetermissa* (Nyl.) P.M. Jørg.		Pannariaceae	Olley and Sharma (2013)
322	*Fuscopannaria subgemmascens* Upreti & P.K.Divakar		Pannariaceae	Olley and Sharma (2013)
323	*Glyphis cicatricosa* Ach.		Graphidaceae	Olley and Sharma (2013)
324	*Graphis antillarum* Vain.		Graphidaceae	Karmacharya et al., (2018)
325	*Graphis breussii G. Neuwirth & Lucking*		Graphidaceae	Karmacharya et al., (2018)
326	*Graphis cincta* (Pers.) Aptroot		Graphidaceae	Karmacharya et al., (2018)
327	*Graphis cleistoblephara* Nyl.	*Allographa cleistoblephara* (Nyl.) Lücking & Kalb	Graphidaceae	Karmacharya et al., (2018)
328	*Graphis galactoderma* (Zahlbr.) Lücking		Graphidaceae	Karmacharya et al., (2018)
329	*Graphis chlorotica* A. Massal		Graphidaceae	Rai et al. (2016)
330	*Graphis leprographa* Nyl.	*Allographa leprographa* (Nyl.) Lücking & Kalb	Graphidaceae	Karmacharya et al., (2018)
331	*Graphis lineola* Ach.		Graphidaceae	Karmacharya et al., (2018)
332	*Graphis paradisserpens* Sipman & Lücking		Graphidaceae	Karmacharya et al., (2018)
333	*Graphis paraserpens* Lizano & Lücking		Graphidaceae	Karmacharya et al., (2018)
334	*Graphis pertricosa (*Kremp.) A.W.Archer		Graphidaceae	Karmacharya et al., (2018)
335	*Graphis pinicola* Zahlbr.		Graphidaceae	Karmacharya et al., (2018)
336	*Graphis proserpens* Vain.		Graphidaceae	Rai et al. (2016)
337	*Graphis scripta* (L.) Ach.		Graphidaceae	Olley and Sharma (2013)
338	*Graphis stenotera* Vain.		Graphidaceae	Karmacharya et al., (2018)
339	Graphis subglauconigra Nagarkar & Patw.		Graphidaceae	Olley and Sharma (2013)
340	Graphis subvelata Stirt.	*Thalloloma subvelata* (Stirt.) D.J.Galloway	Graphidaceae	Karmacharya et al., (2018)
341	*Gyalectidium caucasicum* (Elenkin & Woron.) Vezda		Graphidaceae	Olley and Sharma (2013)
342	*Gyalidea lecideopsis* (A.Massal.) Lettau & Vezda		Graphidaceae	Olley and Sharma (2013)
343	*Gyalidea scutellaris* (Bagl. & Carestia) Lettau		Graphidaceae	Olley and Sharma (2013)
344	*Gyalidea testacea* Vezda & Poelt		Graphidaceae	Olley and Sharma (2013)
345	*Gyalideopsis lithophila* G.Thor & Vezda	*Diploschistella lithophila* (G.Thor & Vězda) Lücking, Sérus. & Vězda	Gomphillaceae	Olley and Sharma (2013)
346	*Gyalideopsis megalospora* Vezda & Poelt		Gomphillaceae	Olley and Sharma (2013)
347	*Gyalideopsis nepalensis* Vezda & Poelt		Gomphillaceae	Olley and Sharma (2013)
348	*Gyrophora polyrhiza* (L.) Körb.	*Umbilicaria polyrrhiza* (L.) Fr.	Umbilicariaceae	Olley and Sharma (2013)
349	*Haematomma puniceum* (Sw.) A.Massal.		Haematommataceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
350	*Haematomma wattii* (Stirt.) Zahlbr.		Haematommataceae	Olley and Sharma (2013)
351	*Hafellia tetrapla* (Nyl.) Pusswald		Caliciaceae	Rai et al. (2016)
352	*Herpothallon* sp.		Arthoniaceae	Olley and Sharma (2013)
353	*Herpothallon isidiatum* Jagadeesh and G.P. Sinha		Arthoniaceae	Rai et al. (2016)
354	*Heterodermia albidiflava* (Kurok.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013), Rai et al. (2016)
355	*Heterodermia angustiloba* (Müll.Arg.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
356	*Heterodermia awasthii* (Kurok.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
357	*Heterodermia boryi* (Fée) Hale	*Leucodermia boryi* (Fée) Kalb	Physciaceae	Olley and Sharma (2013)
358	*Heterodermia comosa* (Eschw.) Follmann & Redón		Physciaceae	Olley and Sharma (2013)
359	*Heterodermia coronata* (Kurok.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
360	*Heterodermia dactyliza* (Nyl.) Swinscow & Krog		Physciaceae	Olley and Sharma (2013)
361	*Heterodermia dactyliza* forma s*erpens* (Vain.) Ajay Singh		Physciaceae	Olley and Sharma (2013)
362	*Heterodermia dendritica* (Pers.) Poelt	*Polyblastidium dendriticum* (Pers.) Kalb	Physciaceae	Olley and Sharma (2013)
363	*Heterodermia diademata* (Taylor) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
364	*Heterodermia dissecta* (Kurok.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
365	*Heterodermia firmula* (Nyl.) Trevis.		Physciaceae	Olley and Sharma (2013)
366	*Heterodermia flabellata* (Fée) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
367	*Heterodermia himalayensis* (D.D.Awasthi) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
368	*Heterodermia hypocaesia* (Yasuda ex Räsänen) D.D.Awasthi	*Polyblastidium hypocaesium* (Yasuda ex Räsänen) Kalb	Physciaceae	Olley and Sharma (2013)
369	*Heterodermia hypochraea* (Vain.) Swinscow and Krog		Physciaceae	Rai et al. (2016)
370	*Heterodermia hypoleuca* (Ach.) Trevis.	*Polyblastidium hypoleucum* (Ach.) Kalb	Physciaceae	Olley and Sharma (2013)
371	*Heterodermia incana* (Stirt.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
372	*Heterodermia isidiophora* (Nyl.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
373	*Heterodermia japonica* (M.Satô) Swinscow & Krog	*Polyblastidium japonicum* (M.Satô) Kalb	Physciaceae	Olley and Sharma (2013)
374	*Heterodermia leucomela* (L.) Poelt	*Leucodermia leucomelos* (L.) Kalb	Physciaceae	Olley and Sharma (2013)
375	*Heterodermia neoleucomelaena* (Kurok.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
376	*Heterodermia obscurata* (Nyl.) Trevis.		Physciaceae	Olley and Sharma (2013)
377	*Heterodermia pelludica* (D.D.Awasthi) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
378	*Heterodermia podocarpa* (Bél.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
379	*Heterodermia pseudospeciosa*		Physciaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	(Kurok.) W.L.Culb.			
380	*Heterodermia punctifera* (Kurok.) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
381	*Heterodermia rubescens* (Räsänen) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
382	*Heterodermia speciosa* (Wulfen) Trevis.		Physciaceae	Olley and Sharma (2013)
383	*Heterodermia togashii* (Kurok.) D.D.Awasthi	*Polyblastidium togashii* (Kurok.) Kalb	Physciaceae	Olley and Sharma (2013)
384	*Heterodermia tremulans* (Müll.Arg.) W.L.Culb.		Physciaceae	Olley and Sharma (2013)
385	*Huilia elegantior* (H.Magn) Hertel	*Amygdalaria elegantior* (H.Magn.) Hertel & Brodo	Lecideaceae	Olley and Sharma (2013)
386	*Hyperphyscia adglutinata* (Flörke) H.Mayrhofer & Poelt		Physciaceae	Olley and Sharma (2013), Rai et al. (2016)
387	*Hyperphyscia granulata* (Poelt) Moberg		Physciaceae	Olley and Sharma (2013)
388	*Hyperphyscia minor* (Fée) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
389	*Hyperphyscia syncolla* (Tuck. ex Nyl.) Kalb		Physciaceae	Olley and Sharma (2013)
390	*Hypogymnia alpina* D.D.Awasthi		Parmeliaceae	Olley and Sharma (2013)
391	*Hypogymnia delavayi* (Hue) Rass.		Parmeliaceae	Olley and Sharma (2013)
392	*Hypogymnia flavida* McCune & Obermayer		Parmeliaceae	Olley and Sharma (2013)
393	*Hypogymnia hypotrypa* (Nyl.) Rass.		Parmeliaceae	Olley and Sharma (2013)
394	*Hypogymnia hypotrypella* (Asahina) Rass.		Parmeliaceae	Olley and Sharma (2013)
395	*Hypogymnia magnifica* X.L. Wei & McCune in litt.		Parmeliaceae	Olley and Sharma (2013)
396	*Hypogymnia subarticulata* (J.D. Zhao, L.W. Hsu & Z.M. Sun) J.C.Wei & Y.M. Jiang		Parmeliaceae	Olley and Sharma (2013)
397	*Hypogymnia vittata* (Ach.) Parrique		Parmeliaceae	Olley and Sharma (2013)
398	*Hypotrachyna crenata* (Kurok. in Hale & S.Kurokawa) Hale		Parmeliaceae	Olley and Sharma (2013)
399	*Hypotrachyna exsecta* (Taylor) Hale		Parmeliaceae	Olley and Sharma (2013)
400	*Hypotrachyna flexilis* (Kurok.) Hale	*Remototrachyna flexilis* (Kurok.) Divakar & A. Crespo	Parmeliaceae	Olley and Sharma (2013)
401	*Hypotrachyna imbricatula* (Zahlbr.) Hale		Parmeliaceae	Olley and Sharma (2013)
402	*Hypotrachyna incognita* (Kurok.) Hale		Parmeliaceae	Olley and Sharma (2013)
403	*Hypotrachyna infirma* (Kurok.) Hale		Parmeliaceae	Olley and Sharma (2013)
404	*Hypotrachyna koyaensis* (Asahina) Hale		Parmeliaceae	Olley and Sharma (2013)
405	*Hypotrachyna laevigata* (Sm.) Hale		Parmeliaceae	Olley and Sharma (2013)
406	*Hypotrachyna majoris* (Vain.) Hale		Parmeliaceae	Olley and Sharma (2013)
407	*Hypotrachyna neodissecta* (Hale) Hale		Parmeliaceae	Olley and Sharma (2013)
408	*Hypotrachyna osseoalba* (Vain.) Y.S. Park & Hale		Parmeliaceae	Olley and Sharma (2013)
409	*Hypotrachyna physcioides* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
410	*Hypotrachyna revoluta* (Flörke) Hale		Parmeliaceae	Olley and Sharma (2013)
411	*Hypotrachyna sinuosa* (Sm.) Hale		Parmeliaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
412	*Hypotrachyna sublaevigata* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
413	*Icmadophila ericetorum* (L.) Zahlbr.		Icmadophilaceae	Olley and Sharma (2013)
414	*Immersaria athroocarpa* (Ach.) Rambold & Pietschm.		Lecideaceae	Olley and Sharma (2013)
415	*Ingvariella bispora* (Bagl.) Guderley & Lumbsch		Stictidaceae	Olley and Sharma (2013)
416	*Ioplaca pindarensis* (Räsänen) Poelt & Hinter.		Teloschistaceae	Olley and Sharma (2013)
417	*Japewia* sp.		Ramalinaceae	Olley and Sharma (2013)
418	*Lasallia freyana* D.D.Awasthi		Umbilicariaceae	Olley and Sharma (2013)
419	*Lasallia pertusa* (Rass.) Llano		Umbilicariaceae	Olley and Sharma (2013)
420	*Lasallia pertusa* forma pertusa (Rass.) Llano		Umbilicariaceae	Olley and Sharma (2013)
421	*Lasallia pustulata* (L.) Mérat		Umbilicariaceae	Olley and Sharma (2013)
422	*Lasallia sinensis* (Wei) Wei		Umbilicariaceae	Olley and Sharma (2013)
423	*Lecania erysibe* (Ach.) Mudd		Ramalinaceae	Olley and Sharma (2013)
424	*Lecanora adolfii* Wei		Lecanoraceae	Olley and Sharma (2013)
425	*Lecanora albella* (Pers.) Ach.		Lecanoraceae	Olley and Sharma (2013)
426	*Lecanora amorpha* Poelt		Lecanoraceae	Olley and Sharma (2013)
427	*Lecanora chlarotera* Nyl.		Lecanoraceae	Olley and Sharma (2013)
428	*Lecanora chondroderma* Zahlbr.		Lecanoraceae	Olley and Sharma (2013)
429	*Lecanora demissa* (Flot.) Zahlbr.		Lecanoraceae	Olley and Sharma (2013)
430	*Lecanora garovaglii* (Korb) Zahlbr.		Lecanoraceae	Olley and Sharma (2013)
431	*Lecanora flavidofusca* Müll.Arg.		Lecanoraceae	Olley and Sharma (2013)
432	*Lecanora garovaglii* (Korb.) Zahlbr.	*Protoparmeliopsis garovaglii* (Körb.) Arup, Zhao Xin & Lumbsch	Lecanoraceae	Olley and Sharma (2013)
433	*Lecanora hellmichiana* Poelt		Lecanoraceae	Olley and Sharma (2013)
434	*Lecanora himalayae* Poelt		Lecanoraceae	Olley and Sharma (2013)
435	*Lecanora indica* Zahlbr.		Lecanoraceae	Olley and Sharma (2013)
436	*Lecanora kirra* Poelt & Grube		Lecanoraceae	Olley and Sharma (2013)
437	*Lecanora lesleyana* (Darb.) Paulson	*Aspicilia lesleyana* Darbish.	Lecanoraceae	Olley and Sharma (2013)
438	*Lecanora luteomarginata* Nayaka, Upreti and Lumbsch		Lecanoraceae	Rai et al. (2016)
439	*Lecanora melanophthalma* (DC.) Ramond	*Rhizoplaca melanophthalma* (DC.) Leuckert	Lecanoraceae	Olley and Sharma (2013)
440	*Lecanora meridionalis* H.Magn		Lecanoraceae	Olley and Sharma (2013)
441	*Lecanora muralis* (Schreb.) Rabenh.	*Protoparmeliopsis muralis* (Schreb.) M.Choisy	Lecanoraceae	Olley and Sharma (2013)
442	*Lecanora muralis* var. dubyi (Müll.Arg.) Poelt		Lecanoraceae	Olley and Sharma (2013)
443	*Lecanora phaedrophthalma* Poelt	*Omphalodina phaedrophthalma* (Poelt) S.Y.Kondr., L.Lőkös & Farkas	Lecanoraceae	Olley and Sharma (2013)
444	*Lecanora rubina* (Hoffm.) Ach.		Lecanoraceae	Olley and Sharma (2013)
445	*Lecanora rubina* var. australis Poelt		Lecanoraceae	Olley and Sharma (2013)
446	*Lecanora rugosella* Zahlbr.		Lecanoraceae	Olley and Sharma (2013)
447	*Lecanora sherparum* Poelt		Lecanoraceae	Olley and Sharma (2013)
448	*Lecanora sommervellii* Paulson		Lecanoraceae	Olley and Sharma (2013)
449	*Lecanora subfusca* Schaer.		Lecanoraceae	Olley and Sharma (2013)
450	*Lecanora sulphurea* (Hoffm.) Ach.	*Glaucomaria sulphurea* (Hoffm.) S.Y.Kondr., L.Lokos & Farkas	Lecanoraceae	Olley and Sharma (2013)

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451	*Lecanora teretiuscula* Zahlbr.		Lecanoraceae	Olley and Sharma (2013)
452	*Lecanora tschomolongmae* Poelt		Lecanoraceae	Olley and Sharma (2013)
453	*Lecanora xylophila* Hue		Lecanoraceae	Olley and Sharma (2013)
454	*Lecidea advena* Nyl.		Lecideaceae	Olley and Sharma (2013)
455	*Lecidea auriculata* Th.Fr.		Lecideaceae	Olley and Sharma (2013)
456	*Lecidea bella* Hertel		Lecideaceae	Olley and Sharma (2013)
457	*Lecidea brachyspora* (Th.Fr.) Nyl.		Lecideaceae	Olley and Sharma (2013)
458	*Lecidea bucculenta* Hertel		Lecideaceae	Olley and Sharma (2013)
459	*Lecidea bullosa* Zahlbr.		Lecideaceae	Olley and Sharma (2013)
460	*Lecidea cerviniicola* B.de Lesd.		Lecideaceae	Olley and Sharma (2013)
461	*Lecidea diducens* Nyl.		Lecideaceae	Olley and Sharma (2013)
462	*Lecidea epiiodiza* Nyl.		Lecideaceae	Olley and Sharma (2013)
463	*Lecidea fuscoatra* var. *indecora* Hertel		Lecideaceae	Olley and Sharma (2013)
464	*Lecidea haerjedalica* var. *gyrodisca* Hertel		Lecideaceae	Olley and Sharma (2013)
465	*Lecidea himalaica* Hertel		Lecideaceae	Olley and Sharma (2013)
466	*Lecidea khumbuensis* Hertel		Lecanoraceae	Olley and Sharma (2013)
467	*Lecidea lactea* Florke & Schaer.		Lecideaceae	Olley and Sharma (2013)
468	*Lecidea leotoboloides* Nyl.		Lecideaceae	Olley and Sharma (2013)
469	*Lecidea molybdochroa* Hertel	*Miriquidica molybdochroa* (Hertel) Hertel & Rambold	Lecanoraceae	Olley and Sharma (2013)
470	*Lecidea peoltii* Hertel		Lecideaceae	Olley and Sharma (2013)
471	*Lecidea russula* Ach.	*Ramboldia russula* (Ach.) Kalb, Lumbsch & Elix	Ramboldiaceae	Olley and Sharma (2013)
472	*Lecidea sanguineoatra* (Wulfen) Ach.	*Bryobilimbia sanguineoatra* (Wulfen) Fryday, Printzen & S.Ekman	Lecideaceae	Olley and Sharma (2013)
473	*Lecidea secernens* H.Magn		Lecanoraceae	Olley and Sharma (2013)
474	*Lecidea silacea* (Hoffm.) Ach.		Lecanoraceae	Olley and Sharma (2013)
475	*Lecidea steineri* Hertel		Lecanoraceae	Olley and Sharma (2013)
476	*Lecidea sulphurea* (Hoffm.) Wahlenb.	*Glaucomaria sulphurea* (Hoffm.) S.Y.Kondr., L.Lokos & Farkas	Lecanoraceae	Olley and Sharma (2013)
477	*Lecidea tessellata* Florke		Lecanoraceae	Olley and Sharma (2013)
478	*Lecidella bullata* Korb.		Lecanoraceae	Olley and Sharma (2013)
479	*Lecidella carpathica* Korb.		Lecanoraceae	Olley and Sharma (2013)
480	*Lecidella dimelaenophila* Hertel		Lecanoraceae	Olley and Sharma (2013)
481	*Lecidella inamoena* (Müll.Arg.) Hertel		Lecanoraceae	Olley and Sharma (2013)
482	*Lecidella stigmatea* (Ach.) Hertel & Leuckert		Lecanoraceae	Olley and Sharma (2013)
483	*Lecidella wulfenii* (Ach.) Korb.		Lecanoraceae	Olley and Sharma (2013)
484	*Lecidoma demissum* (Rutstr.) Gotth.Schneid. & Hertel		Lecideaceae	Olley and Sharma (2013)
485	*Lepraria lobificans* Nyl.		Stereocaulaceae	Olley and Sharma (2013)
486	*Lepraria squamatica* Elix		Stereocaulaceae	Olley and Sharma (2013)
487	*Lepraria usnica* Sipman	*Septotrapelia usnica* (Sipman) Kalb & Bungartz	Pilocarpaceae	Olley and Sharma (2013)
488	*Lepraria yunnaniana* (Hue) Zahlbr.		Stereocaulaceae	Olley and Sharma (2013)
489	*Leprocaulon arbuscula* (Nyl.) Nyl.	*Lepraria arbuscula* (Nyl.) Lendemer & B.P.Hodk.	Stereocaulaceae	Olley and Sharma (2013)
490	*Leprocaulon microscopicum* (Vill.) Gams		Leprocaulaceae	Olley and Sharma (2013)
491	*Leprocaulon pseudoarbuscula* (Asahina) I.M.Lamb & A.Ward	*Lepraria pseudoarbuscula* (Asahina) Lendemer &	Stereocaulaceae	Olley and Sharma (2013)

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		B.P.Hodk.		
492	*Leproplaca chrysodeta* (Vain.) J.R.Laundon & Ahti		Teloschistaceae	Olley and Sharma (2013)
493	*Leptogium arisanense* Asahina		Collemataceae	Olley and Sharma (2013)
494	*Leptogium asiaticum* P.M. Jorg.		Collemataceae	Olley and Sharma (2013)
495	*Leptogium askotense* D.D.Awasthi		Collemataceae	Olley and Sharma (2013)
496	*Leptogium austroamericanum* (Malme) C.W.Dodge		Collemataceae	Olley and Sharma (2013)
497	*Leptogium azureum* (Sw.) Mont.		Collemataceae	Olley and Sharma (2013)
498	*Leptogium brebissonii* Mont.		Collemataceae	Olley and Sharma (2013)
499	*Leptogium burnetiae* Dodge		Collemataceae	Olley and Sharma (2013)
500	*Leptogium cochleatum* (Dicks.) P.M.Jørg. & P.James		Collemataceae	Olley and Sharma (2013)
501	*Leptogium cyanescens* (Ach.) Korb.		Collemataceae	Olley and Sharma (2013)
502	*Leptogium delavayi* forma *fuliginosulum* Zahlbr.		Collemataceae	Olley and Sharma (2013)
503	*Leptogium delavayi* Hue		Collemataceae	Olley and Sharma (2013)
504	*Leptogium indicum* D.D.Awasthi & Akhatar		Collemataceae	Olley and Sharma (2013)
505	*Leptogium isidiosellum* (Riddle) Sierk		Collemataceae	Olley and Sharma (2013)
506	*Leptogium javanicum* (Mont. & Bosch) Mont.		Collemataceae	Olley and Sharma (2013)
507	*Leptogium papillosum* (de Lesd.) C.W.Dodge		Collemataceae	Olley and Sharma (2013)
508	*Leptogium pedicellatum* P.M.Jorg.		Collemataceae	Olley and Sharma (2013)
509	*Leptogium phyllocarpum* (Pers.) Mont.		Collemataceae	Olley and Sharma (2013)
510	*Leptogium platynum* (Tuck.) Herre	*Scytinium platynum* (Tuck.) Otalora, P.M.Jorg. & Wedin	Collemataceae	Rai et al. (2016)
511	*Leptogium resupinans* Nyl.		Collemataceae	Olley and Sharma (2013)
512	*Leptogium saturninum* (Dicks.) Nyl.		Collemataceae	Olley and Sharma (2013)
513	*Leptogium sphaerosporum* P.M. Jørg. & L. Olley		Collemataceae	Olley and Sharma (2013)
514	*Leptogium tremelloides* (Ach) Gray		Collemataceae	Olley and Sharma (2013)
515	Leptogium trichophorum forma fuliginosum Müll.Arg.		Collemataceae	Olley and Sharma (2013)
516	*Leptogium trichophorum* Müll.Arg.		Collemataceae	Olley and Sharma (2013)
517	Letharia mesomorpha (Nyl.) Du Rietz	*Evernia mesomorpha* Nyl.	Parmeliaceae	Olley and Sharma (2013)
518	*Letharia vulpina* (L.) Hue		Parmeliaceae	Olley and Sharma (2013)
519	*Lethariella cladonioides* (Nyl.) Krog		Parmeliaceae	Olley and Sharma (2013)
520	*Letrouitia domingensis* (Pers.) Hafellner & Bellem.		Letrouitiaceae	Olley and Sharma (2013)
521	*Letrouitia leprolyta* (Nyl.) Hafellner		Letrouitiaceae	Olley and Sharma (2013)
522	*Letrouitia transgressa* (Malme) Hafellner & Bellem.		Letrouitiaceae	Olley and Sharma (2013)
523	*Lichenomphalia hudsoniana* (H.S.Jenn.) Redhead		Hygrophoraceae	Olley and Sharma (2013)
524	*Llimoniella neglecta* (Vain.) Triebel & Rambold		Rhymbocarpus	Olley and Sharma (2013)
525	*Lobaria adscriptens* (Nyl.) Hue		Lobariaceae	Olley and Sharma (2013)
526	*Lobaria adscripturiens* (Nyl.) Hue		Lobariaceae	Devkota et al. (2017a)
527	*Lobaria discolor* (Bory) Hue		Lobariaceae	Olley and Sharma (2013)
528	*Lobaria fuscotomentosa* Yoshim.		Lobariaceae	Olley and Sharma (2013)
529	*Lobaria isidiosa* (Mull.Arg.) Vain.		Lobariaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
530	*Lobaria kurokawae* Yoshim.		Lobariaceae	Olley and Sharma (2013)
531	*Lobaria meridionalis* Vain.		Lobariaceae	Olley and Sharma (2013)
532	*Lobaria pindarensis* Rasanen		Lobariaceae	Olley and Sharma (2013)
533	*Lobaria pseudopulmonaria* Gyeln.		Lobariaceae	Olley and Sharma (2013)
534	*Lobaria retigera* (Bory) Trev.		Lobariaceae	Olley and Sharma (2013)
535	*Lobaria subretigera* Inumaru		Lobariaceae	Olley and Sharma (2013)
536	*Lobothallia alphoplaca* (Wahlenb.) Hafellner		Megasporaceae	Olley and Sharma (2013)
537	*Lobothallia praeradiosa* (Nyl.) Hafellner		Megasporaceae	Olley and Sharma (2013)
538	*Maronea* sp.		Fuscideaceae	Olley and Sharma (2013)
539	*Megaspora verrucosa* (Ach.) Hafellner & V.Wirth		Megasporaceae	Olley and Sharma (2013)
540	*Melanelia glabra* (Schaer.) Essl.	*Melanelixia glabra* (Schaer.) O.Blanco, A.Crespo, Divakar, Essl., D.Hawksw. & Lumbsch	Parmeliaceae	Olley and Sharma (2013)
541	*Melanelia hepatizon* (Ach.) Thell.		Parmeliaceae	Olley and Sharma (2013)
542	*Melanelia tominii* (Oxner) Essl.	*Montanelia tominii* (Oxner) Divakar, A.Crespo, Wedin & Essl.	Parmeliaceae	Olley and Sharma (2013)
543	*Melanohalea elegantula* (Zahlbr.) O.Blanco, A.Crespo, Divakar, Essl., D.Hawksw. & Lumbsch		Parmeliaceae	Olley and Sharma (2013)
544	*Melanohalea poeltii* (Essl.) O.Blanco, A.Crespo, P.K.Divakar, Essl., D.Hawksw. & Lumbsch		Parmeliaceae	Olley and Sharma (2013)
545	*Menegazzia terebrata* Hoffm. ex A.Massal.		Parmeliaceae	Olley and Sharma (2013)
546	*Micarea* sp.		Pilocarpaceae	Olley and Sharma (2013)
547	*Microcalicium disseminatum* (Ach.) Vain.		Microcaliciaceae	Olley and Sharma (2013)
548	*Microglaena thelostomoides* (Nyl.) Zahlbr.		Thelenellaceae	Olley and Sharma (2013)
549	*Mycobilimbia hunana* (Zahlbr.) D.D.Awasthi		Ramalinaceae	Olley and Sharma (2013)
550	*Mycoblastus sanguinarius* (L.) Norman		Tephromelataceae	Olley and Sharma (2013)
551	*Myelochroa aurulenta* (Tuck.) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
552	*Myelochroa entotheiochra* (Hue) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
553	*Myelochroa galbina* (Ach.) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
554	*Myelochroa indica* (Hale) Elix and Hale		Parmeliaceae	Rai et al. (2016)
555	*Myelochroa irrugans* (Nyl.) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
556	*Myelochroa metarevoluta* (Asahina) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
557	*Myelochroa xantholepis* (Mont. & Bosch) Elix & Hale	*Parmelina xantholepis* (Mont. & v.d.Bosch) Hale	Parmeliaceae	Olley and Sharma (2013)
558	*Nephroma helveticum* Ach.		Nephromataceae	Olley and Sharma (2013)
559	*Nephroma isidiosum* (Nyl.) Gyeln.		Nephromataceae	Olley and Sharma (2013)
560	*Nephroma nakaoi* Asahina		Nephromataceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
561	*Nephromopsis ahtii* (Randlane & Saag) Randlane & Saag		Parmeliaceae	Olley and Sharma (2013)
562	*Nephromopsis ectocarpisma* (Hue) Gyeln.		Parmeliaceae	Olley and Sharma (2013)
563	*Nephromopsis isidioidea* (Rasanen) Randlane & Saag		Parmeliaceae	Olley and Sharma (2013)
564	*Nephromopsis laureri* (Kremp.) Kurok.	*Tuckneraria laureri* (Kremp.) Randlane & A.Thell	Parmeliaceae	Olley and Sharma (2013)
565	*Nephromopsis leucostigma* (Lev.) Thell. & Randlane	*Flavocetrariella leucostigma* (Lév.) D.D.Awasthi	Parmeliaceae	Olley and Sharma (2013)
566	*Nephromopsis melaloma* (Nyl.) Thell. & Randlane		Parmeliaceae	Olley and Sharma (2013)
567	*Nephromopsis nephromoides* (Nyl.) Ahti & Randlane		Parmeliaceae	Olley and Sharma (2013)
568	*Nephromopsis pallescens* (Schaer.) Park	*Cetrariopsis pallescens* (Schaerer) Randl. & Thell	Parmeliaceae	Olley and Sharma (2013)
569	*Nephromopsis stracheyi* (Bab.) Mull.Arg.		Parmeliaceae	Olley and Sharma (2013)
570	*Normandina pulchella* (Borrer) Nyl.		Verrucariaceae	Olley and Sharma (2013)
571	*Ochrolechia bryophaga* (Erichsen) K.Schmitz & Lumbsch		Ochrolechiaceae	Olley and Sharma (2013)
572	*Ochrolechia glacialis* Poelt		Ochrolechiaceae	Olley and Sharma (2013)
573	*Ochrolechia margarita* Poelt		Ochrolechiaceae	Olley and Sharma (2013)
574	*Ochrolechia rosella forma sorediascens* Poelt		Ochrolechiaceae	Olley and Sharma (2013)
575	*Ochrolechia trochophora* (Vain.) Oshio		Ochrolechiaceae	Olley and Sharma (2013)
576	*Ochrolechia yasudae* Vain.		Ochrolechiaceae	Olley and Sharma (2013)
577	*Ochrolechia yasudae* var. *corallina* Poelt		Ochrolechiaceae	Olley and Sharma (2013)
578	*Ophioparma ventosa* (L.) Norman		Ophioparmaceae	Olley and Sharma (2013)
579	*Oropogon formosanus* Asah.		Parmeliaceae	Olley and Sharma (2013)
580	*Pachyphiale himalayensis* Vezda & Poelt	*Gyalecta himalayensis* (Vězda & Poelt) Baloch & Lücking	Gyalectaceae	Olley and Sharma (2013)
581	*Pallidogramme chrysenteron* (Mont.) Staiger, Kalb & Lücking		Graphidaceae	Karmacharya et al., (2018)
582	*Pallidogramme divaricoides* (Rasanen) Pushpi Singh & Kr.P.Singh		Graphidaceae	Karmacharya et al., (2018)
583	*Pannaria conoplea* (Ach.) Bory		Pannariaceae	Olley and Sharma (2013)
584	*Pannaria emodi* P.M. Jørg.		Pannariaceae	Olley and Sharma (2013)
585	*Parmelaria subthomsonii* D.D.Awasthi	*Parmotrema subthomsonii* (D.D.Awasthi) A.Crespo, Divakar & Elix	Parmeliaceae	Olley and Sharma (2013)
586	*Parmelaria thomsonii* (Stirt.) D.D.Awasthi	*Parmotrema thomsonii* (Stirt.) A.Crespo, Divakar & Elix	Parmeliaceae	Olley and Sharma (2013)
587	*Parmelia adaugescens* Nyl.		Parmeliaceae	Olley and Sharma (2013)
588	*Parmelia dodapetta* (Hale & Patw.) D.D.Awasthi	*Remototrachyna dodapetta* (Hale & Patw.) Divakar & A.Crespo	Parmeliaceae	Olley and Sharma (2013)
589	*Parmelia erumpens* Kurok.	*Notoparmelia erumpens* (Kurok.) A.Crespo, Ferencová & Divakar	Parmeliaceae	Olley and Sharma (2013)
590	*Parmelia latissima* var. *marmariza* (Nyl.) G.L.Chopra		Parmeliaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
591	*Parmelia masonii* Essl. & Poelt	*Emodomelanelia masonii* (Essl. & Poelt) Divakar & A.Crespo	Parmeliaceae	Olley and Sharma (2013)
592	*Parmelia meiophora* Nyl.		Parmeliaceae	Olley and Sharma (2013)
593	*Parmelia melanothrix* Vain.		Parmeliaceae	Olley and Sharma (2013)
594	*Parmelia nimandairana* Zahlbr.	*Parmelinella nimandairana* (Zahlbr.) Benatti & Marcelli	Parmeliaceae	Olley and Sharma (2013)
595	*Parmelia omphalodes* (L.) Ach.		Parmeliaceae	Olley and Sharma (2013)
596	*Parmelia pseudohyporysalea* Asahina		Parmeliaceae	Olley and Sharma (2013)
597	*Parmelia rhytidodes* (Hale) Ajay Singh		Parmeliaceae	Olley and Sharma (2013)
598	*Parmelia ricasolioides* Nyl.	*Nipponoparmelia ricasolioides* (Nyl.) A.Crespo & Divakar	Parmeliaceae	Olley and Sharma (2013)
599	*Parmelia squarrosa* Hale		Parmeliaceae	Olley and Sharma (2013)
600	*Parmelia stenophylla* J.D.Zhao		Parmeliaceae	Olley and Sharma (2013)
601	*Parmelia sublaevigata* (Nyl.) Nyl.	*Hypotrachyna sublaevigata* (Nyl.) Hale	Parmeliaceae	Olley and Sharma (2013)
602	*Parmelia submutata* Hue		Parmeliaceae	Olley and Sharma (2013)
603	*Parmelia sulcata* Taylor		Parmeliaceae	Olley and Sharma (2013)
604	*Parmeliella* sp.		Pannariaceae	Olley and Sharma (2013)
605	*Parmelina quercina* (Willd.) Hale		Parmeliaceae	Olley and Sharma (2013)
606	*Parmelina tiliacea* (Hoffm.) Hale		Parmeliaceae	Olley and Sharma (2013)
607	*Parmelinella simplicior* (Hale) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
608	*Parmelinella wallichiana* (Taylor) Elix & Hale		Parmeliaceae	Olley and Sharma (2013)
609	*Parmelinopsis expallida* (Kurok.) Elix & Hale	*Hypotrachyna expallida* (Kurok.) Elix & Hale	Parmeliaceae	Olley and Sharma (2013)
610	*Parmelinopsis minarum* (Vain.) Elix & Hale	*Parmelinopsis minarum* (Vain.) Elix & Hale	Parmeliaceae	Olley and Sharma (2013)
611	*Parmotrema andinum* (Müll.Arg.) Hale		Parmeliaceae	Olley and Sharma (2013)
612	*Parmotrema austrosinense* (Zahlbr.) Hale		Parmeliaceae	Olley and Sharma (2013)
613	*Parmotrema cetratum* (Ach.) Hale		Parmeliaceae	Olley and Sharma (2013)
614	*Parmotrema chinense* (Osbeck) Hale & Ahti		Parmeliaceae	Olley and Sharma (2013)
615	*Parmotrema cooperi* (Stein & Zahlbr.) Sérus.		Parmeliaceae	Olley and Sharma (2013)
616	*Parmotrema dilatatum* (Vain.) Hale		Parmeliaceae	Olley and Sharma (2013)
617	*Parmotrema eunetum* (Stirt.) Hale		Parmeliaceae	Olley and Sharma (2013)
618	*Parmotrema grayanum* (Hue) Hale		Parmeliaceae	Olley and Sharma (2013)
619	*Parmotrema hababianum* (Gyeln.) Hale		Parmeliaceae	Olley and Sharma (2013)
620	*Parmotrema indicum* Hale		Parmeliaceae	Olley and Sharma (2013)
621	*Parmotrema lobulascens* (Stein) Hale		Parmeliaceae	Olley and Sharma (2013)
622	*Parmotrema maclayanum* (Müll.Arg.) Hale		Parmeliaceae	Olley and Sharma (2013)
623	*Parmotrema melanothrix* (Mont.) Hale		Parmeliaceae	Olley and Sharma (2013)
624	Parmotrema mellissii (Dodge) Hale		Parmeliaceae	Olley and Sharma (2013)
625	*Parmotrema nilgherrensis* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
626	*Parmotrema praesorediosum* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
627	*Parmotrema pseudonilgherrense*		Parmeliaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	(Asahina) Hale			
628	*Parmotrema rampoddense* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
629	*Parmotrema reticulatum* (Taylor) Choisy		Parmeliaceae	Olley and Sharma (2013)
630	*Parmotrema sancti-angelii* (Lynge) Hale		Parmeliaceae	Olley and Sharma (2013)
631	*Parmotrema stuppeum* (Taylor) Hale		Parmeliaceae	Olley and Sharma (2013)
632	*Parmotrema tinctorum* (Nyl.) Hale		Parmeliaceae	Olley and Sharma (2013)
633	*Parmotrema ultralucens* (Krog) Hale		Parmeliaceae	Olley and Sharma (2013)
634	*Parmotrema yodae* (Kurok.) Hale		Parmeliaceae	Olley and Sharma (2013)
635	*Peltigera canina* (L.) Willd.		Peltigeraceae	Olley and Sharma (2013)
636	*Peltigera diactyla* (With.) J.R. Laundon		Peltigeraceae	Olley and Sharma (2013)
637	*Peltigera dolichorrhiza* (Nyl.) Nyl.		Peltigeraceae	Olley and Sharma (2013)
638	*Peltigera dolichospora* (D.A.Lu) Vitik.		Peltigeraceae	Olley and Sharma (2013)
639	*Peltigera elisabethae* Gyeln.		Peltigeraceae	Olley and Sharma (2013)
640	*Peltigera lepidophora* (Nyl.) Bitter		Peltigeraceae	Olley and Sharma (2013)
641	*Peltigera leucophlebia* (Nyl.) Gyeln.		Peltigeraceae	Olley and Sharma (2013)
642	*Peltigera malacea* (Ach.) Funk.		Peltigeraceae	Olley and Sharma (2013)
643	*Peltigera membranacea* (Ach.) Nyl.		Peltigeraceae	Olley and Sharma (2013)
644	*Peltigera microphylla* (Anders) Gyeln.		Peltigeraceae	Olley and Sharma (2013)
645	*Peltigera neopolydactyla* (Gyeln.) Gyeln.		Peltigeraceae	Olley and Sharma (2013)
646	*Peltigera polydactylon* (Neck.) Hoffm.		Peltigeraceae	Olley and Sharma (2013)
647	*Peltigera praetextata* (Florke ex Sommerf.) Zopf		Peltigeraceae	Olley and Sharma (2013)
648	*Peltigera pruinosa* (Inumaru) Gyeln.		Peltigeraceae	Olley and Sharma (2013)
649	*Peltigera rufescens* (Weis.) Humb.		Peltigeraceae	Olley and Sharma (2013)
650	*Peltigera scabrosa* Th.Fr.		Peltigeraceae	Olley and Sharma (2013)
651	*Pertusaria bryontha* (Ach.) Nyl.		Pertusariaceae	Olley and Sharma (2013)
652	*Pertusaria composita* Zahlbr.		Pertusariaceae	Olley and Sharma (2013)
653	*Pertusaria hemisphaerica* (Flörke) Erichsen	*Varicellaria hemisphaerica* (Flörke) I.Schmitt & Lumbsch	Ochrolechiaceae	Olley and Sharma (2013)
654	*Pertusaria leioplaca* DC.		Pertusariaceae	Olley and Sharma (2013)
655	*Pertusaria leucosorodes* Nyl.	*Lepra leucosorodes* (Nyl.) I.Schmitt, B.G.Hodk. & Lumbsch	Pertusariaceae	Olley and Sharma (2013)
656	*Pertusaria multipuncta* (Turner) Nyl.	*Lepra multipuncta* (Turner) Hafellner	Pertusariaceae	Olley and Sharma (2013)
657	*Pertusaria pertusa* (L.) Tuck.		Pertusariaceae	Olley and Sharma (2013)
658	*Pertusaria pertusella* Müll.Arg.		Pertusariaceae	Olley and Sharma (2013)
659	*Pertusaria quassiae* (Fée) Nyl.		Pertusariaceae	Olley and Sharma (2013)
660	*Pertusaria submultipuncta* Nyl.		Pertusariaceae	Olley and Sharma (2013)
661	*Pertusaria variolosa* (Kremp.) Vain.		Pertusariaceae	Olley and Sharma (2013)
662	*Phaeographina nepalensis* D.D.Awasthi & Kr.P.Singh		Graphidaceae	Olley and Sharma (2013)
663	*Phaeographina pyrrhochroa* (Mont. & Bosch) Zahlbr.	*Platythecium pyrrhochroum* (Mont. & Bosch) Z.F.Jia & Lücking	Graphidaceae	Olley and Sharma (2013)
664	*Phaeographis leiogrammodes* (Kremp.) Müll.Arg.		Graphidaceae	Karmacharya et al., (2018)
665	*Phaeophyscia endococcina* (Körb.) Moberg		Physciaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
666	*Phaeophyscia endococcina* var. *khumbuensis* (Poelt) Ajay Singh		Physciaceae	Olley and Sharma (2013)
667	*Phaeophyscia endococcinodes* (Poelt) Essl.		Physciaceae	Olley and Sharma (2013)
668	*Phaeophyscia endococcinodes* var. *megalospora* Poelt		Physciaceae	Olley and Sharma (2013)
669	P*haeophyscia hispidula* (Ach.) Essl.		Physciaceae	Olley and Sharma (2013)
670	*Phaeophyscia hispidula* subsp. *hispidula* (Ach.) Moberg		Physciaceae	Olley and Sharma (2013)
671	*Phaeophyscia hispidula* subsp. l*imbata* (Poelt)		Physciaceae	Olley and Sharma (2013)
672	*Phaeophyscia hispidula* var. *exornatula* (Zahlbr.) Moberg		Physciaceae	Olley and Sharma (2013)
673	*Phaeophyscia hispidula* var. *hispidula* (Ach.) Essl.		Physciaceae	Olley and Sharma (2013)
674	*Phaeophyscia limbata* (Poelt) Kashiw.		Physciaceae	Olley and Sharma (2013)
675	*Phaeophyscia lygaea* (Poelt) D.D.Awasthi		Physciaceae	Olley and Sharma (2013)
676	*Phaeophyscia primaria* (Poelt) Trass		Physciaceae	Olley and Sharma (2013)
677	*Phaeophyscia pyrrhophora* (Poelt) D.D.Awasthi & M.Joshi		Physciaceae	Olley and Sharma (2013)
678	*Phaeophyscia sciastra* (Ach.) Moberg		Physciaceae	Olley and Sharma (2013)
679	*Phaeorrhiza nimbosa* (Fr.) Mayrh. & Poelt		Physciaceae	Olley and Sharma (2013)
680	*Phlyctella indica* Awasthi		Roccellaceae	Olley and Sharma (2013)
681	*Phlyctis nepalensis* Räsänen		Phlyctidaceae	Olley and Sharma (2013)
682	*Phyllopsora* sp		Ramalinaceae	Olley and Sharma (2013)
683	*Physcia aipolia* (Ehrh. ex Humb.) Fürnr.		Physciaceae	Olley and Sharma (2013)
684	*Physcia albonigra* (Schl.) Dalla Torre & Sarnth.		Physciaceae	Olley and Sharma (2013)
685	*Physcia aspera* var. *alutacea* H.Magn		Caliciaceae	Olley and Sharma (2013)
686	*Physcia caesia* (Hoffm.) Fürnr.		Physciaceae	Olley and Sharma (2013)
687	*Physcia clementii* (Sm.) Lynge		Physciaceae	Olley and Sharma (2013)
688	*Physcia dilatata* Nyl.		Physciaceae	Olley and Sharma (2013)
689	*Physcia dubia* (Hoffm.) Lettau		Physciaceae	Olley and Sharma (2013)
690	*Physcia intermedia* Vain.		Physciaceae	Olley and Sharma (2013)
691	*Physcia phaea* (Tuck.) J.W.Thomson		Physciaceae	Olley and Sharma (2013)
692	*Physcia pulverulenta* Nyl.		Physciaceae	Olley and Sharma (2013)
693	*Physcia stellaris* (L.) Nyl.		Physciaceae	Olley and Sharma (2013)
694	*Physcia stellaris* subsp. i*ntesiniformis* (Frey) Poelt		Physciaceae	Olley and Sharma (2013)
695	*Physcia tribacia* (Ach.) Nyl.		Physciaceae	Olley and Sharma (2013)
696	*Physcia tribacioides* Nyl.		Physciaceae	Olley and Sharma (2013)
697	*Physciella nepalensis* (Poelt) Essl.		Physciaceae	Olley and Sharma (2013)
698	*Physciopsis minor* (Fée) Moore		Physciaceae	Olley and Sharma (2013)
699	*Physconia detersa* (Nyl.) Poelt		Physciaceae	Olley and Sharma (2013)
700	*Physconia enteroxantha* (Nyl.) Poelt		Physciaceae	Olley and Sharma (2013)
701	*Physconia farrea* (Ach.) Poelt		Physciaceae	Olley and Sharma (2013)
702	*Physconia muscigena* (Ach.) Poelt		Physciaceae	Olley and Sharma (2013)
703	*Physconia pulverulenta* (Schreb.) Poelt		Physciaceae	Olley and Sharma (2013)
704	*Physma byrsaeum* (Afzel. ex Ach.) Tuck.		Pannariaceae	Olley and Sharma (2013)

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705	*Physma byrsinum* (Ach.) Müll.Arg.		Pannariaceae	Olley and Sharma (2013)
706	*Placidiopsis pseudocinerea* Breuss		Verrucariaceae	Olley and Sharma (2013)
707	*Placynthiella icmalea* (Ach.) Coppins & P. James		Trapeliaceae	Olley and Sharma (2013)
708	Pl*atismatia erosa* W.L.Culb. & C.F.Culb.		Parmeliaceae	Olley and Sharma (2013)
709	*Pleopsidium flavum* (Bellardi) Körb.		Acarosporaceae	Olley and Sharma (2013)
710	*Polysporina simplex* (Davies) Vezda		Acarosporaceae	Olley and Sharma (2013)
711	*Porina corruscans* (Rehm) R.Sant.		Porinaceae	Olley and Sharma (2013)
712	*Porina hoehneliana* (Jaap) R.Sant.		Porinaceae	Olley and Sharma (2013)
713	*Porina pallescens* R.Sant.		Porinaceae	Olley and Sharma (2013)
714	*Porpidia crustulata* (Ach.) Hertel & Knoph		Lecideaceae	Olley and Sharma (2013)
715	*Porpidia hydrophila* (Fr.) Hertel & A.J.Schwab		Lecideaceae	Olley and Sharma (2013)
716	*Porpidia macrocarpa* (DC.) Hertel & Knoph		Lecideaceae	Olley and Sharma (2013)
717	*Protoblastenia russula* (Ach.) Räsänen	*Ramboldia russula* (Ach.) Kalb, Lumbsch & Elix	Ramboldiaceae	Olley and Sharma (2013)
718	*Protoparmelia badia* (Hoffm.) Hafellner		Parmeliaceae	Olley and Sharma (2013)
719	*Protoparmelia effigurans* Grube & Poelt		Parmeliaceae	Olley and Sharma (2013)
720	*Psora decipiens* (Hedw.) Hoffm.		Psoraceae	Olley and Sharma (2013)
721	*Psoroma hypnorum* (Vahl) Gray		Pannariaceae	Olley and Sharma (2013)
722	*Punctelia borreri* (Turner) Krog		Parmeliaceae	Olley and Sharma (2013)
723	*Punctelia rudecta* (Ach.) Krog		Parmeliaceae	Olley and Sharma (2013)
724	*Punctelia subrudecta* (Nyl.) Krog		Parmeliaceae	Olley and Sharma (2013)
725	*Pycnothelia papillaria* (Ehrh.) L.M.Dufour		Cladoniaceae	Olley and Sharma (2013)
726	*Pyrenula cayennensis* Müll.Arg.		Pyrenulaceae	Olley and Sharma (2013)
727	*Pyrenula complanata* (Mont.) Trevis.		Pyrenulaceae	Rai et al. (2016)
728	*Pyrenula immersa* Müll.Arg.		Pyrenulaceae	Olley and Sharma (2013)
729	*Pyxine berteriana* (Fée) Imshaug		Caliciaceae	Olley and Sharma (2013), Rai et al. (2016)
730	*Pyxine berteriana* var. *himalaica* D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
731	*Pyxine coccifera* (Fée) Nyl.		Caliciaceae	Olley and Sharma (2013)
732	*Pyxine farinosa* Kashiw.		Caliciaceae	Rai et al. (2016)
733	*Pyxine messnerina* Nyl.		Caliciaceae	Olley and Sharma (2013)
734	*Pyxine nilgiriensis* D.D.Awasthi		Caliciaceae	Olley and Sharma (2013)
735	*Pyxine philippina* Vain.		Caliciaceae	Olley and Sharma (2013)
736	*Pyxine retirugella* Nyl.		Caliciaceae	Olley and Sharma (2013)
737	*Pyxine sorediata* (Ach.) Mont.		Caliciaceae	Olley and Sharma (2013)
738	*Ramalina australiensis* Nyl.		Ramalinaceae	Olley and Sharma (2013)
739	*Ramalina calicaris* (L.) Röhl.		Ramalinaceae	Olley and Sharma (2013)
740	*Ramalina conduplicans* Vain.		Ramalinaceae	Olley and Sharma (2013)
741	*Ramalina farinacea* Ach.		Ramalinaceae	Olley and Sharma (2013)
742	*Ramalina flabelliformis* Asahina		Ramalinaceae	Olley and Sharma (2013)
743	*Ramalina hossei* Vain.		Ramalinaceae	Olley and Sharma (2013)
744	*Ramalina roesleri* (Hochst. ex Schaer.) Hue		Ramalinaceae	Olley and Sharma (2013)
745	*Ramalina sinensis* Jatta		Ramalinaceae	Olley and Sharma (2013)
746	*Ramalina subampliata* (Nyl.) Fink		Ramalinaceae	Olley and Sharma (2013)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
747	*Ramalina subcomplanata* Nyl. Kashiw.		Ramalinaceae	Olley and Sharma (2013)
748	*Ramalina subfarinacea* (Nyl. ex Cromb.) Nyl.		Ramalinaceae	Olley and Sharma (2013)
749	Remototrachyna adducta (Nyl.) P.K.Divakar & A.Crespo		Parmeliaceae	Olley and Sharma (2013)
750	Remototrachyna rhabdiformis (Kurok.) P.K.Divakar & A.Crespo		Parmeliaceae	Olley and Sharma (2013)
751	*Remototrachyna scytophylla* (Kurok.) P.K.Divakar & A.Crespo		Parmeliaceae	Olley and Sharma (2013)
752	*Rhizocarpon badioatrum* (Flörke & Spreng.) Th.Fr.		Rhizocarpaceae	Olley and Sharma (2013)
753	*Rhizocarpon geographicum* (L.) DC.		Rhizocarpaceae	Olley and Sharma (2013)
754	*Rhizocarpon geographicum* var. *macrosporum* (Räsänen) Clauzade & Rondon		Rhizocarpaceae	Olley and Sharma (2013)
755	*Rhizocarpon kansuense* H.Magn		Rhizocarpaceae	Olley and Sharma (2013)
756	*Rhizocarpon superficiale* (Schaer.) Vain.		Rhizocarpaceae	Olley and Sharma (2013)
757	*Rhizoplaca chrysoleuca* (Sm.) Zopf	*Omphalodina chrysoleuca* (Sm.) S.Y.Kondr., L.Lőkös & Farkas	Lecanoraceae	Olley and Sharma (2013)
758	*Rhizoplaca melanopthalma* var. *obscura* (J.Steiner) Leuckert & Poelt		Lecanoraceae	Olley and Sharma (2013)
759	*Rhizoplaca peltata* (Ramond) Leuckert & Poelt	*Protoparmeliopsis peltata* (Ramond) Arup, Zhao Xin & Lumbsch	Lecanoraceae	Olley and Sharma (2013)
760	*Rimelia clavulifera* (Räsänen) Kurok.	*Parmotrema clavuliferum* (Räsänen) Streimann	Parmeliaceae	Olley and Sharma (2013)
761	*Rinodina arnoldii* Mayrh. & Poelt		Physciaceae	Olley and Sharma (2013)
762	*Rinodina badiella* (Nyl.) Th.Fr.		Physciaceae	Olley and Sharma (2013)
763	*Rinodina cinnamomea* (Th.Fr.) Räsänen		Physciaceae	Olley and Sharma (2013)
764	*Rinodina conradii* Körb.		Physciaceae	Olley and Sharma (2013)
765	*Rinodina mniaraea* var. *mniaraea* (Ach.) Körb.		Physciaceae	Olley and Sharma (2013)
766	*Rinodina sophodes* (Ach.) A. Massal.		Physciaceae	Rai et al. (2016)
767	*Rinodina turfacea* (Wahlenb.) Körb.		Physciaceae	Olley and Sharma (2013)
768	*Sagema potentillae* Poelt & Grube		Lecanoraceae	Olley and Sharma (2013)
769	*Sclerophora amabilis* (Tibell) Tibell		Coniocybaceae	Olley and Sharma (2013)
770	*Sclerophora coniophaea* (Norman) Mattson & Middleb.		Icmadophilaceae	Olley and Sharma (2013)
771	*Siphula ceratites* (Wahlenb.) Fr.		Icmadophilaceae	Olley and Sharma (2013)
772	*Solorina bispora* Nyl.		Peltigeraceae	Olley and Sharma (2013)
773	*Solorina crocea* (L.) Ach.		Peltigeraceae	Olley and Sharma (2013)
774	*Solorina saccata* (L.) Ach.		Peltigeraceae	Olley and Sharma (2013)
775	*Solorina simensis* Flotow		Peltigeraceae	Olley and Sharma (2013)
776	*Sphaerophorus fragilis* (L.) Pers.		Sphaerophoraceae	Olley and Sharma (2013)
777	*Sphaerophorus* sp		Sphaerophoraceae	Olley and Sharma (2013)
778	*Sporastatia testudinea* (Ach.) A.Massal.		Sporastatiaceae	Olley and Sharma (2013)
779	*Stereocaulon claviceps* Th.Fr.		Stereocaulaceae	Olley and Sharma (2013)
780	*Stereocaulon coniophyllum* Lamb.		Stereocaulaceae	Olley and Sharma (2013)
781	*Stereocaulon foliolosum* Nyl.		Stereocaulaceae	Olley and Sharma (2013)

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782	*Stereocaulon foliolosum* var. *botryophorum* (Müll.Arg.) I.M.Lamb		Stereocaulaceae	Olley and Sharma (2013)
783	*Stereocaulon foliolosum* var. *strictum* (Bab.) Lamb.		Stereocaulaceae	Olley and Sharma (2013)
784	*Stereocaulon glareosum* (Savicz) H.Magn		Stereocaulaceae	Olley and Sharma (2013)
785	*Stereocaulon himalayense* D.D.Awasthi & I.M.Lamb		Stereocaulaceae	Olley and Sharma (2013)
786	*Stereocaulon leprocauloides* I.M.Lamb		Stereocaulaceae	Olley and Sharma (2013)
787	*Stereocaulon myriocarpum* Th.Fr.		Stereocaulaceae	Olley and Sharma (2013)
788	*Stereocaulon piluliferum* Th.Fr.		Stereocaulaceae	Olley and Sharma (2013)
789	*Stereocaulon pomiferum* P.A.Duvign.		Stereocaulaceae	Olley and Sharma (2013)
790	*Stereocaulon sasakii* Zahlbr.		Stereocaulaceae	Olley and Sharma (2013)
791	*Stereocaulon togashii* Lamb.		Stereocaulaceae	Olley and Sharma (2013)
792	*Stereocaulon tomentosum* subsp. *myriocarpum* (Th.Fr.) Nyl.		Stereocaulaceae	Olley and Sharma (2013)
793	*Stereocaulon tomentosum* subsp. *myriocarpum* var. orizabae (Th.Fr.) Lamb. ex Asahina		Stereocaulaceae	Olley and Sharma (2013)
794	*Sticta limbata* (Sm.) Ach.		Lobariaceae	Devkota et al. (2017a)
795	*Sticta henryana* Müll.Arg.		Lobariaceae	Olley and Sharma (2013)
796	*Sticta nylanderiana* Zahlbr.		Lobariaceae	Olley and Sharma (2013)
797	*Sticta platyphylloides* Nyl.	*Dendriscosticta platyphylla* (Trevis.) Moncada & Lücking	Lobariaceae	Olley and Sharma (2013)
798	*Sticta praetextata* (Räsänen) D.D.Awasthi	*Dendriscosticta praetextata* (Räsänen) Moncada & Lücking	Lobariaceae	Olley and Sharma (2013)
799	*Sticta weigelii* (Ach.) Vainio		Lobariaceae	Olley and Sharma (2013)
800	*Strigula smaragdula* Fr.		Strigulaceae	Olley and Sharma (2013)
801	*Sulcaria sulcata* (Lév.) Bystrek ex Brodo & D.Hawksw.		Parmeliaceae	Olley and Sharma (2013)
802	*Sulcaria virens* (Taylor) Bystrek ex Brodo & D.Hawksw.			Olley and Sharma (2013)
803	*Tapellaria saxicola* Vezda & Poelt		Pilocarpaceae	Olley and Sharma (2013)
804	*Tephromela glacialis* Grube & Poelt		Mycoblastaceae	Olley and Sharma (2013)
805	*Tephromela siphulodes* Poelt & Grube		Mycoblastaceae	Olley and Sharma (2013)
806	*Thamnolia vermicularis* (L.) Schaer.		Icmadophilaceae	Olley and Sharma (2013)
807	*Thamnolia vermicularis* subsp. *subuliformis* (Ehrh.) Schaer.		Icmadophilaceae	Olley and Sharma (2013)
808	*Thyrea* sp.		Lichinaceae	Olley and Sharma (2013)
809	*Toninia* sp.		Ramalinaceae	Olley and Sharma (2013)
810	*Trapelia subconcolor* (Anzi) Hertel	*Parainoa subconcolor* (Anzi) Resl & T.Sprib.	Baeomycetaceae	Olley and Sharma (2013)
811	*Trapeliopsis flexuosa* (Fr.) Coppins & P. James		Trapeliaceae	Olley and Sharma (2013)
812	*Tremolecia atrata* (Ach.) Hertel		Hymeneliaceae	Olley and Sharma (2013)
813	*Tylophoron moderatum* Nyl.		Arthoniaceae	Olley and Sharma (2013)
814	*Tylophoron protrudens* Nyl.		Arthoniaceae	Olley and Sharma (2013)
815	*Umbilicaria badia* Frey		Umbilicariaceae	Olley and Sharma (2013)
816	*Umbilicaria cinereorufescens* (Schaer.) Frey		Umbilicariaceae	Olley and Sharma (2013)
817	*Umbilicaria decussata* (Vill.) Zahlbr.		Umbilicariaceae	Olley and Sharma (2013)
818	*Umbilicaria indica* Frey		Umbilicariaceae	Olley and Sharma (2013)

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819	*Umbilicaria indica* var. *nana* Frey & Poelt		Umbilicariaceae	Olley and Sharma (2013)
820	*Umbilicaria krascheninnikovii* (Sav.) Zahlbr.		Umbilicariaceae	Olley and Sharma (2013)
821	*Umbilicaria leiocarpa* DC.		Umbilicariaceae	Olley and Sharma (2013)
822	*Umbilicaria nanella* Frey & Poelt		Umbilicariaceae	Olley and Sharma (2013)
823	*Umbilicaria nepalensis* Poelt		Umbilicariaceae	Olley and Sharma (2013)
824	*Umbilicaria rhizinata* (Frey & Poelt) Krzewicka		Umbilicariaceae	Olley and Sharma (2013)
825	*Umbilicaria thamnodes* Hue		Umbilicariaceae	Olley and Sharma (2013)
826	*Umbilicaria trabeculata* Frey & Poelt		Umbilicariaceae	Olley and Sharma (2013)
827	*Umbilicaria vellea* (L.) Ach. & Frey		Umbilicariaceae	Olley and Sharma (2013)
828	*Umbilicaria verginis* Schaer.		Umbilicariaceae	Olley and Sharma (2013)
829	*Umbilicaria yunnana* (Nyl.) Hue		Umbilicariaceae	Olley and Sharma (2013)
830	*Usnea aciculifera* Vain.		Parmeliaceae	Olley and Sharma (2013)
831	*Usnea baileyi* (Stirt.) Zahlbr.	*Eumitria baileyi* Stirt.	Parmeliaceae	Olley and Sharma (2013)
832	*Usnea compressa* Tayl.		Parmeliaceae	Olley and Sharma (2013)
833	*Usnea dendritica* Stirt.		Parmeliaceae	Olley and Sharma (2013)
834	*Usnea filipendula* Stirt.		Parmeliaceae	Olley and Sharma (2013)
835	*Usnea galbinifera* var. s*ubfibrillos*a Asahina		Parmeliaceae	Olley and Sharma (2013)
836	*Usnea himalayana* Bab.		Parmeliaceae	Olley and Sharma (2013)
837	*Usnea implicata* forma *subcreberrima* (Vain.) Asahina		Parmeliaceae	Olley and Sharma (2013)
838	*Usnea longissima* (Hepp) Overeem		Parmeliaceae	Olley and Sharma (2013)
839	*Usnea luridorufa* Stirt.		Parmeliaceae	Olley and Sharma (2013)
840	*Usnea montis-fuji* Motyka		Parmeliaceae	Olley and Sharma (2013)
841	*Usnea nepalensis* G.Awasthi		Parmeliaceae	Olley and Sharma (2013)
842	*Usnea nipparensis* Asahina		Parmeliaceae	Olley and Sharma (2013)
843	*Usnea norkettii* G.Awasthi		Parmeliaceae	Olley and Sharma (2013)
844	*Usnea orientalis* Motyka		Parmeliaceae	Olley and Sharma (2013)
845	*Usnea pangiana* Stirt.		Parmeliaceae	Olley and Sharma (2013)
846	*Usnea perplexans* Stirt.		Parmeliaceae	Olley and Sharma (2013)
847	*Usnea pseudojaponica* G.Awasthi		Parmeliaceae	Olley and Sharma (2013)
848	*Usnea pseudomontis-fuji* Asahina		Parmeliaceae	Olley and Sharma (2013)
849	*Usnea pseudosinensis* Asahina		Parmeliaceae	Olley and Sharma (2013)
850	*Usnea robusta* Stirt.		Parmeliaceae	Olley and Sharma (2013)
851	*Usnea roseola* Vain.		Parmeliaceae	Olley and Sharma (2013)
852	*Usnea rubescens* Stirt.		Parmeliaceae	Olley and Sharma (2013)
853	*Usnea rubicunda* Stirt.		Parmeliaceae	Olley and Sharma (2013)
854	*Usnea splendens* Stirt.		Parmeliaceae	Olley and Sharma (2013)
855	*Usnea subsordida* Stirt.		Parmeliaceae	Olley and Sharma (2013)
856	*Usnea thomso*nii Stirt.		Parmeliaceae	Olley and Sharma (2013)
857	*Usnea trichodea* Vain.		Parmeliaceae	Olley and Sharma (2013)
858	*Usnea trichodeoides* Vain. ex Motyka	*Dolichousnea trichodeoides* (Vain. ex Motyka) Articus	Parmeliaceae	Olley and Sharma (2013)
859	*Verrucaria acrotella* Ach.		Verrucariaceae	Rai et al. (2016)
860	*Verrucaria margacea* (Wahlenb.) Wahlenb.		Verrucariaceae	Rai et al. (2016)
861	*Xanthomendoza ulophyllodes* (Räsänen) Soøchting, Karnefelt & S. Kondr.	*Xanthoria ulophyllodes* Räsänen	Teloschistaceae	Olley and Sharma (2013)
862	*Xanthoparmelia australasica* D.J.		Parmeliaceae	Rai et al. (2016)

S.N.	Lichen Taxa	Modified Names (www.gbif.org)	Family	References
	Galloway			
863	*Xanthoparmelia coreana* (Gyeln.) Hale		Parmeliaceae	Olley and Sharma (2013)
864	*Xanthoparmelia isidiosa* (Jatta) Elix & J.Johnst.		Parmeliaceae	Olley and Sharma (2013)
865	*Xanthoparmelia mexicana* (Gyeln.) Hale		Parmeliaceae	Olley and Sharma (2013)
866	*Xanthoparmelia nepalensis* L.R.Sharma & Kurok.		Parmeliaceae	Olley and Sharma (2013)
867	*Xanthoparmelia tuberculiformis* Kurok.		Parmeliaceae	Olley and Sharma (2013)
868	*Xanthoria borealis* R.Sant. & Poelt	*Gallowayella borealis* (R.Sant. & Poelt) S.Y.Kondr., Fedorenko, S.Stenroos, Kärnefelt, Elix, Hur & A.Thell	Teloschistaceae	Olley and Sharma (2013)
869	*Xanthoria candelaria* (L.) Arn.	*Polycauliona candelaria* (L.) Frödén, Arup & Søchting	Teloschistaceae	Olley and Sharma (2013)
870	*Xanthoria elegans* (Link) Th.Fr.		Teloschistaceae	Olley and Sharma (2013)
871	*Xanthoria fallax* Arnold	*Oxneria fallax* (Arnold) S.Y.Kondr. & Kärnefelt	Teloschistaceae	Olley and Sharma (2013)
872	*Xanthoria fulva* (Hoffm.) Poelt & Petut.	*Gallowayella fulva* (Hoffm.) S.Y.Kondr., Fedorenko, S.Stenroos, Kärnefelt, Elix, Hur & A.Thell	Teloschistaceae	Olley and Sharma (2013)
873	*Xanthoria sorediata* (Vain.) Poelt	*Rusavskia sorediata* (Vain.) S.Y.Kondr. & Kärnefelt	Teloschistaceae	Olley and Sharma (2013)