

Checklist of the lichens and lichenicolous fungi of Tunisia

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Abstract: SEAWARD, M. R. D., KHADHRI, A. & AMRANI, S. 2021. Checklist of the lichens and lichenicolous fungi of Tunisia. – *Herzogia* 34: 400–427.

Although lichens have been the subject of renewed interest for many countries worldwide, this has not been the case for Tunisia where much of the territory continues to be largely under-explored. In order to promote lichenological research in Tunisia, a checklist was published in 1996 together with an historical overview and a bibliography compiled from a wide range of published sources. As a result of more recent field and herbarium work, a revised checklist containing 644 taxa (628 lichens and 16 lichenicolous and allied fungi) is provided, of which 230 taxa are additional to the previous checklist; it also takes into account the large number of changes to the nomenclature in recent years.

Zusammenfassung: SEAWARD, M. R. D., KHADHRI, A. & AMRANI, S. 2021. Checkliste der Flechten und flechtenbewohnenden Pilze von Tunesien. – *Herzogia* 34: 400–427.

Obwohl die Flechten in vielen Ländern der Welt Gegenstand erneuten Interesses geworden sind, trifft das nicht auf Tunesien zu, wo große Gebiete immer noch weitgehend unerforscht sind. Um die Flechtenforschung in Tunesien zu stimulieren, wurde im Jahre 1996 eine Checkliste zusammen mit einem historischen Überblick und einer Bibliographie publiziert, die aus einer Vielzahl publizierter Quellen kompiliert wurden. Als Ergebnis neuerer Feldarbeiten und Herbarstudien wird hier eine revidierte Checkliste vorgelegt, die 644 Taxa (628 Flechten und 16 flechtenbewohnende und assoziierte Pilze) enthält, wovon 230 Taxa neu sind im Vergleich zur vorigen Liste. Sie berücksichtigt auch die Vielzahl nomenklatorischer Änderungen der letzten Jahre.

Key words: North Africa, Mediterranean, species list, biodiversity.

Introduction

Although there is a reasonable number of published papers relating to floristic and phytogeographical aspects of the Tunisian flora, this is not the case for its diverse lichen flora. According to WERNER (1951a), the sporadic collection of lichens in Tunisia has taken place since 1640, but the first recorded species are attributable to René Desfontaines in 1783 and Jean Louis Kralik in 1854. The first published lists are those of HUE (1897) and PITARD & BOULY DE LESDAIN (1909). The most complete published work can be found in the phytogeographic interpretation of the Tunisian lichenological flora by WERNER (1951a), and the largest unpublished list results from the expedition led by Josef Poelt in 1968. Further information on the early history of lichen recording in Tunisia is rare (PATOULLARD 1897, WERNER 1951a, FAUREL et al. 1951), and only 186 species have been published (WERNER 1951a, 1951b, 1955a 1955b).

The published list by SEAWARD (1996) includes 415 taxa (395 species, 3 subspecies, 13 varieties and 4 forms). Since then, there has been a reasonable number of published studies which

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have focussed on the richness and diversity of Tunisian lichens and the effects of air pollution on the lichen flora, namely EL MOKNI et al. (2010, 2011a, 2011b, 2013a, 2013b, 2015), GUTTOVÁ et al. (2015), TABBABI & KARMOUS 2018, GUTTOVÁ & EL MOKNI (2019) and EL MOKNI & CLERC (2020), as well as three post-graduate masters theses (ELLAFI 2005, TABBABI 2009, NEFFATI 2013) and three doctorate theses (KARMOUS 1998, BACHTOBI-BOUACHIR 2018, EL MOKNI 2020). Of particular note are the papers by GUTTOVÁ et al. (2015) and GUTTOVÁ & EL MOKNI (2019) relating to the 12th OPTIMA ITER meeting in Tunisia in 2014 (DOMINA et al. 2015); as a consequence, a significant number of new records resulted as part of the biodiversity research it supported, and further additions are expected. Other recent work has been mostly related to lichen chemistry, secondary metabolites and antibiotic properties (TABBABI & KARMOUS 2016, KHADHRI et al. 2019, MENDILI et al. 2019, 2021a, 2021b).

The revised checklist which follows contains 644 taxa (628 lichens and 16 lichenicolous and allied fungi), of which 230 taxa are additional to those previously listed (SEAWARD 1996); it excludes two taxa (*Alectoria ochroleuca* & *Rhizocarpon umbilicatum*) which await validation. The checklist also covers earlier publications and herbarium data unavailable or unknown to the author in 1996, and addresses the very large number of changes to the nomenclature in recent years.

Environmentally Tunisia has a wide range of habitats, supporting a rich and varied flora (SMAOUI 2015, YOU et al. 2016), which stretch from the Sahara with 20–100 mm rainfall per annum in the south to the Mediterranean with 800–1500 mm per annum rainfall in the north. Five bioclimatic zones, desert (Saharan), arid, semi-arid (steppe), sub-humid and humid, occur within these parameters. Sadly, land degradation has accelerated in the arid and semi-arid zones due to deforestation and desertification. However, c. 1 million ha of forest remain, but most of this occurs in the humid north-west which accounts for only 3.6% of the nation's total land area. Lichenologically much of the country remains under-explored; it is therefore hoped that the revised checklist will stimulate further ecological and phytogeographical interest in the lichen flora of its diverse habitats.

Checklist

Further details of earlier collectors, herbaria, exsiccata, and published and unpublished sources are to be found in SEAWARD (1996). Abbreviations of herbaria cited – international: B (Botanisches Museum, Berlin), COLO (University of Colorado), DUKE (Duke University), E (Royal Botanic Garden, Edinburgh), GB (Göteborg Botanical Garden), LD (Lund Botanical Museum), M (Botanische Staatssammlung, Munich), MANCH (Manchester Museum), P (Museum National d'Histoire Naturelle, Paris), UPS (Institute of Systematic Botany, Uppsala) and personal: AK (A. Khadhri), MRDS (M.R.D. Seaward).

* = lichenicolous and allied fungi.

Acarospora cervina (Ach.) A.Massal. – SEAWARD (1996)

A. coeruleoalba J.Steiner – SEAWARD (1996)

A. laqueata Stizenb. – WERNER (1939, 1955b), SEAWARD (1996)

A. nitrophila H.Magn. – EL MOKNI et al. (2015)

A. nodulosa (Dufour) Hue (syn. *A. reagens* Zahlbr.) – WERNER (1939, 1955b), SEAWARD (1996)

A. peltastica Zahlbr. – SEAWARD (1996)

- A. pitardii* B.de Lesd. (cf. *A. laqueata* Stizenb.) – WERNER (1939, 1955b), SEAWARD (1996)
- A. placenta* (Ehrenb.) Hue – SEAWARD (1996)
- A. scabrida* Hedl. ex H.Magn. – EL MOKNI et al. (2015)
- A. schleicheri* (Ach.) A.Massal. – WERNER (1955b), SEAWARD (1996), TABBABI (2009), TABBABI & KARMOUS (2016)
- A. sinopica* (Wahlenb.) Körb. – EL MOKNI et al. (2015)
- A. sulphurata* (Arnold) Arnold – SEAWARD (1996)
- A. tunetana* H.Magn. – SEAWARD (1996)
- A. umbilicata* Bagl. – NEFFATI (2013), EL MOKNI et al. (2015)
- Acolium sessile* (Pers.) Arnold (syn. *Cyphelium sessile* (Pers.) Trevis.) – EL MOKNI et al. (2013a, 2015)
- Acrocordia gemmata* (Ach.) A.Massal. – SEAWARD (1996), EL MOKNI et al. (2013a, 2015)
- A. macrospora* A.Massal. – SEAWARD (1996)
- Alectoria sarmentosa* (Ach.) Ach. – EL MOKNI et al. (2015)
- Alyxoria mougeotii* (A.Massal.) Ertz, Frisch & G.Thor (syn. *Opegrapha mougeotii* A.Massal. – SEAWARD (1996)
- A. ochrocincta* (Werner) Ertz (syn. *Opegrapha ochrocincta* Werner) – SEAWARD (1996)
- A. subelevata* (Nyl.) Ertz & Tehler (syn. *Opegrapha subelevata* (Nyl.) Nyl.) – SEAWARD (1996), TEMINA et al. (2004)
- A. varia* (Pers.) Ertz & Tehler (syn. *Opegrapha varia* Pers., *O. pulicaris* auct.) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019)
- Amandinea punctata* (Hoffm.) Coppins & Scheid. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a), Herb. AK (leg. Khadhri 2020)
- Amygdalaria arthrocarpa* Ach. – EL MOKNI et al. (2015)
- Anaptychia ciliaris* (L.) Körb. ex A.Massal. – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), KARMOUS et al. (1997), EL MOKNI et al. (2010, 2015), Herb. AK (leg. Khadhri 2020)
- A. crinalis* (Schleich.) Vězda – SEAWARD (1996)
- A. runcinata* (With.) J.R.Laundon – SEAWARD (1996), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019), Herb. AK (leg. Khadhri 2020)
- Anema nummularium* (Dufour) Nyl. – GUTTOVÁ et al. (2015)
- Anisomeridium biforme* (Borrer) R.C.Harris – SEAWARD (1996)
- Arctomia fascicularis* (L.) Otálora & Wedin (syn. *Collema fasciculare* (L.) F.H.Wigg., *Gabura fascicularis* (L.) P.M.Jørg.) – ARVIDSSON (1979), SEAWARD (1996)
- Arthonia albopulverea* Nyl. – Herb. UPS (leg. Hertel 1968)
- A. atra* (Pers.) A.Schneid. (syn. *Opegrapha atra* Pers.) – SEAWARD (1996), EL MOKNI et al. (2015)
- A. caesiella* Nyl. – SEAWARD (1996)
- A. calcarea* (Turner ex Sm.) Ertz & Diederich (syn. *Opegrapha calcarea* Sm.) – Herb. UPS (leg. Poelt 1968), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- A. galactiformis* Flagey – SEAWARD (1996)

- A. galactites* (DC.) Dufour – PITARD (1909), SEAWARD (1996)
- A. melanophthalma* Dufour – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), ALONSO & EGEA (2003)
- A. palmicola* Ach. – PITARD (1909), WERNER (1939, 1946), SEAWARD (1996)
- A. punctiformis* Ach. (syn. *Naevia punctiformis* (Ach.) A.Massal.) – EL MOKNI et al. (2013a, 2015)
- A. radiata* (Pers.) Ach. – SEAWARD (1996), EL MOKNI et al. (2015)
- Arthothelium burolletii* B.de Lesd. – SEAWARD (1996)
- A. crozalsianum* B.de Lesd. – SEAWARD (1996), GRUBE & GIRALT (1996).
- Arthrosporum populorum* A.Massal. – SEAWARD (1996), ALONSO & EGEA (2003)
- Aspicilia circummunita* (Nyl.) Flagey – WERNER (1955b), SEAWARD (1996)
- A. rimulosa* (H.Magn.) Oxner – SEAWARD (1996)
- Aspiciliella intermutans* (Nyl.) M.Choisy (syn. *Aspicilia intermutans* (Nyl.) Arnold) – SEAWARD (1996), EL MOKNI et al. (2015)
- Athallia holocarpa* (Hoffm.) Arup, Frödén & Söchting (syn. *Caloplaca holocarpa* (Ach.) Wade) – PITARD (1909), SEAWARD (1996), ALONSO & EGEA (2003), GUTTOVÁ & EL MOKNI (2019)
- A. inconnexa* (Nyl.) S.Y.Kondr. & L.Lökös (syn. *Caloplaca inconnexa* (Nyl.) Zahlbr.) – SEAWARD (1996)
- A. skii* (Khodos., Vondrák & Šoun) Arup, Frödén & Söchting – GUTTOVÁ et al. (2015)
- Bacidia rosella* (Pers.) De Not. – Herb. LD (leg. Runemark 1948), SEAWARD (1996)
- B. rubella* (Hoffm.) A.Massal. – SEAWARD (1996), EL MOKNI et al. (2013a, 2015), BACHTOBI-BOUACHIR (2018)
- B. subacerina* Vain. – EL MOKNI et al. (2015)
- B. thyrenica* Llop – BACHTOBI-BOUACHIR (2018)
- B. viridifarinoso* Coppins & P.James – EL MOKNI et al. (2015)
- Bacidina inundata* (Fr.) Vězda. (syn. *Bacidia inundata* (Fr.) Körb.) – EL MOKNI et al. (2013a, 2015)
- Bactrospora patellarioides* (Nyl.) Almq. – Herb. UPS (leg. Poelt & Wunder 1968), SEAWARD (1996)
- Bagliettoa calciseda* (DC.) Gueidan & Cl.Roux (syn. *Verrucaria calciseda* auct.) – PITARD (1909), SEAWARD (1996), GUEIDAN & ROUX (2007)
- Bellicidia incompta* (Borrer) Kistenich et al. (syn. *Bacidia incompta* (Hook.) Anzi) – SEAWARD (1996)
- Bibhya lutoso* (Ach.) Kistenich et al. (syn. *Toninia lutoso* (Ach.) Timdal) – SEAWARD (1996)
- Blastenia coralliza* (Arup & Åkeliu) Arup, Söchting & Frödén (syn. *Caloplaca coralliza* Arup & Åkeliu) – ARUP & ÅKELIUS (2009), GUTTOVÁ et al. (2015)
- B. crenularia* (With.) Arup, Söchting & Frödén (syn. *Caloplaca crenularia* (With.) J.R.Laundon) – SEAWARD (1996), EL MOKNI et al. (2015)
- B. ferruginea* (Huds.) A.Massal. (syn. *Caloplaca ferruginea* (Huds.) Th.Fr.) – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a, 2015), BACHTOBI-BOUACHIR (2018)
- B. ferruginella* (Nyl.) Müll.Arg. – WERNER (1939), SEAWARD (1996)
- Blennothallia crispa* (Huds.) Otálora, P.M.Jørg. & Wedin (syn. *Collema crispum* (Huds.) Weber ex F.H.Wigg.) – SEAWARD (1996), EL MOKNI et al. (2015)
- Bryoria chalybeiformis* (L.) Brodo & D.Hawksw. – EL MOKNI et al. (2015)

- B. fuscescens* (Gyeln.) Brodo & D.Hawksw. – EL MOKNI et al. (2015)
- Bryostigma lapidicola* (Taylor) S.Y.Kondr. & Hur (syn. *Arthonia lapidicola* (Taylor) Branth & Rostr.) – SEAWARD (1996)
- Buellia aethalea* (Ach.) Th.Fr. – EL MOKNI et al. (2015)
- B. boitardi* Werner – WERNER (1941), SEAWARD (1996)
- B. griseovirens* (Turner & Borrer ex Sm.) Almb. – NORDIN (2000)
- B. leptoclinodes* (Nyl.) J.Steiner (syn. *Hafellia leptoclinoides* (Nyl.) Scheid. & H.Mayrhofer nom. illegit.) – SEAWARD (1996)
- B. ocellata* (Flörke ex Flot.) Körb. (syn. *Rinodina ocellata* (Hoffm.) Arnold) – MAYRHOFER & POELT (1979)
- B. patouillardii* (Hue) Zahlbr. – SEAWARD (1996)
- B. saxorum* A.Massal. – EL MOKNI et al. (2015)
- B. subdisciformis* (Leight.) Jatta – EL MOKNI et al. (2015)
- B. tunetana* (Hue) Zahlbr. – SEAWARD (1996)
- Calicium glaucellum* Ach. – GUTTOVÁ & EL MOKNI (2019)
- C. viride* Pers. – Herb. UPS (leg. Degelius 1948)
- Calogaya biatorina* (A.Massal.) Arup, Frödén & Söchting (syn. *Caloplaca biatorina* (A.Massal.) J.Steiner) – SEAWARD (1996).
- C. decipiens* (Arnold) Arup, Frödén & Söchting (syn. *Caloplaca decipiens* (Arnold) Blomb. & Forsell) – Herb. MRDS (leg. Atherden 1995), SEAWARD (1996)
- C. polycarpoides* (J.Steiner) Arup, Frödén & Söchting (syn. *Caloplaca polycarpoides* (J.Steiner) M.Steiner & Poelt) – SEAWARD (1996).
- C. saxicola* (Hoffm.) Vondrák (syn. *Caloplaca saxicola* (Hoffm.) Nordin) – Herb. MRDS (leg. Atherden 1995), SEAWARD (1996), TABBABI (2009), TABBABI & KARMOUS (2016)
- Caloplaca aegatica* Giralt, Nimis & Poelt – SEAWARD (1996), ALONSO & EGEA (2003), GUTTOVÁ et al. (2015)
- C. albidoauriantiaca* (Hue) Zahlbr. – SEAWARD (1996)
- C. alnetorum* Giralt, Nimis & Poelt – SEAWARD (1996), ALONSO & EGEA (2003)
- C. cerina* (Hedw.) Th.Fr. – SEAWARD (1996), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019)
- C. circumalbata* (Delile) Wunder – SEAWARD (1996)
- C. circumalbata* var. *candida* (Stizenb.) Wunder – SEAWARD (1996)
- C. erythrocarpa* (Pers.) Zwackh – Herb. GB (leg. Skottsberg 1924), SEAWARD (1996), TEMINA et al. (2004), NEFFATI (2013), EL MOKNI et al. (2015)
- C. haematites* (Chaub. ex St.-Amans) Zwackh – SEAWARD (1996), GUTTOVÁ et al. (2015)
- C. herbidella* (Arnold) H.Magn. – SEAWARD (1996), ARUP & ÅKELIUS (2009)
- C. navasiana* Nav.-Ros & Cl.Roux – SEAWARD (1996)
- C. ochracea* (Schaer.) Flagey – SEAWARD (1996)
- C. stillicidiorum* (Vahl) Lyngé – GUTTOVÁ et al. (2015)

- C. subochracea* (Wedd.) Werner – SEAWARD (1996)
- C. tavaresiana* Nav.-Ros & Cl.Roux – SEAWARD (1996)
- C. teicholyta* (Ach.) J.Steiner – SEAWARD (1996)
- C. ulcerosa* Coppins & P.James – GUTTOVÁ et al. (2015)
- Candelaria concolor* (Dicks.) Arnold – NEFFATI (2013), EL MOKNI et al. (2013a)
- Candelariella aurella* (Hoffm.) Zahlbr. – SEAWARD (1996)
- C. medians* (Nyl.) A.L.Sm. – WERNER (1939, 1955b), SEAWARD (1996)
- C. reflexa* (Nyl.) Lettau – NEFFATI (2013)
- C. senior* Poelt – SEAWARD (1996)
- C. vitellina* (Hoffm.) Müll.Arg. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a)
- C. xanthostigma* (Pers. ex Ach.) Lettau – SEAWARD (1996)
- Catapyrenium daedaleum* (Kremp.) Stein – GUTTOVÁ & EL MOKNI (2019)
- C. lachneum* (Ach.) R.Sant. – SEAWARD (1996)
- C. lachneum* var. *rufopallens* (Nyl.) Servít – WERNER (1949), SEAWARD (1996)
- C. psoromoides* (Borrer) R.Sant. – GUTTOVÁ & EL MOKNI (2019)
- C. rufescens* (Ach.) Breuss (syn. *Dermatocarpon rufescens* (Ach.) Th.Fr.) – SEAWARD (1996)
- C. squamulosum* (Ach.) Breuss – SEAWARD (1996)
- C. tenellum* Breuss – SEAWARD (1996)
- C. virescens* (Zahlbr.) Breuss – SEAWARD (1996)
- Catillaria chalybeia* (Borrer) A.Massal. – SEAWARD (1996), EL MOKNI et al. (2015)
- C. lenticularis* (Ach.) Th.Fr. – ANDREANSZKY (1934), SEAWARD (1996)
- C. nigroclavata* (Nyl.) J.Steiner – SEAWARD (1996), ALONSO & EGEA (2003), EL MOKNI et al. (2015)
- C. tricolor* (With.) Th.Fr. – SEAWARD (1996)
- **Cercidospora epicarphinea* (Nyl.) Grube & Hafellner – ALSTRUP (2004)
- **C. xanthoriae* (Wedd.) R.Sant. – Herb. MANCH (leg. Gandoger 1907)
- Cetraria nivalis* (L.) Ach. – EL MOKNI et al. (2015)
- Cetrelia olivetorum* (Nyl.) W.L.Culb. & C.F.Culb. – EL MOKNI et al. (2015, incorrectly cited as *Cetraria olivetorum*)
- Chromatochlamys muscorum* (Fr.) H.Mayrhofer & Poelt – SEAWARD (1996)
- Chrysothrix candelaris* (L.) J.R.Laundon – Herb. UPS (leg. Degelius 1948), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019).
- C. chlorina* (Ach.) J.R.Laundon – EL MOKNI et al. (2015)
- Circinaria affinis* (Eversm.) Sohrabi (syn. *Aspicilia affinis* (Eversm.) Mereschk.) – SEAWARD (1996)
- C. calcarea* (L.) A.Nordin, Savić & Tibell (syn. *Aspicilia calcarea* (L.) Mudd) – PITARD (1909), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), TABBABI & KARMOUS (2016)

- C. contorta* (Hoffm.) A.Nordin, Savić & Tibell (syn. *Aspicilia contorta* (Hoffm.) Kremp.) – SEAWARD (1996)
- C. hoffmanniana* (S.Ekman & Fröberg ex R.Sant.) A.Nordin (syn. *Aspicilia contorta* subsp. *hoffmanniana* S.Ekman & Fröberg) – TEMINA et al. (2004)
- Cladonia arbuscula* (Wallr.) Flot. – EL MOKNI et al. (2015)
- C. cervicornis* (Ach.) Flot. – EL MOKNI et al. (2015), Herb. MRDS (leg. Mendili 2016), BURGAZ et al. (2020)
- C. chlorophaea* (Flörke ex Sommerf.) Spreng. – Herb. DUKE (leg. Culberson 1974), KARMOUS et al. (1997), EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2019)
- C. ciliata* Stirt. – EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. coccifera* (L.) Willd. – EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. coniocraea* (Flörke) Spreng. – Herb. UPS (leg. Degelius 1948, as *C. ochrochlora* Flörke), EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. crispata* (Ach.) Flot. – Herb. AK (leg. Khadhri 2019)
- C. cyanomorpha* Stirt. ex Walt.Watson – Herb. DUKE (leg. Culberson 1974)
- C. deformis* (L.) Hoffm. – NEFFATI (2013), Herb. AK (leg. Khadhri 2020)
- C. digitata* (L.) Hoffm. – NEFFATI (2013)
- C. fimbriata* (L.) Fr. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2020), BURGAZ et al. (2020)
- C. firma* (Nyl.) Nyl. – SEAWARD (1996)
- C. foliacea* (Huds.) Willd. (syn. *C. convoluta* (Lam.) Anders) – Herb. P (leg. Patouillard 1893), ANDREANSZKY (1934), Herb. UPS (leg. Degelius 1948), DEBAZAC (1959), SEAWARD (1996), Herb. DUKE (leg. Culberson 1974), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016), GUTTOVÁ & EL MOKNI (2019), KHADHRI et al. (2019), Herb. AK (leg. Khadhri 2020), BURGAZ et al. (2020)
- C. furcata* (Huds.) Schrad. – DEBAZAC (1959), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2019), BURGAZ et al. (2020)
- C. gracilis* (L.) Willd. – EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. humilis* (With.) J.R.Laundon (s.lat.) – Herb. DUKE (leg. Culberson 1976)
- C. macilenta* Hoffm. – EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. mediterranea* P.A.Duvign. & Abbayes – SEAWARD (1996), BURGAZ et al. (2020)
- C. parasitica* (Hoffm.) Hoffm. – Herb. UPS (leg. Degelius 1948), EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. phyllophora* Hoffm. – Herb. AK (leg. Khadhri 2020)
- C. pocillum* (Ach.) O.J.Rich. – SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019), Herb. AK (leg. Khadhri 2019)
- C. portentosa* (Dufour) Coem. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. pyxidata* (L.) Hoffm. – ANDREANSZKY (1934), Herb. LD (leg. Runemark), Herb. MRDS (leg. Atherden 1995), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019), BURGAZ et al. (2020)

- C. ramulosa* (With.) J.R.Laundon – SEAWARD (1996)
- C. rangiferina* (L.) Weber ex F.H.Wigg. – EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. rangiformis* Hoffm. – ANDRÉANSZKY (1934), Herb. UPS (leg. Degelius 1948), SEAWARD (1996), KARMOUS et al. (1997), LITTERSKI & AHTI (2004), TABBABI (2009), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016), BURGAZ et al. (2020), Herb. AK (leg. Khadhri 2020), MENDILI et al. (2021b)
- C. squamosa* (Scop.) Hoffm. – NEFFATI (2013), EL MOKNI et al. (2015), BURGAZ et al. (2020)
- C. strepsilis* (Ach.) Vain. – SEAWARD (1996), LITTERSKI & AHTI (2004)
- C. subcervicornis* (Vain.) Kernst. – NEFFATI (2013)
- C. subulata* (L.) Weber ex F.H.Wigg. – EL MOKNI et al. (2015), BURGAZ et al. (2020), Herb. AK (leg. Khadhri 2020)
- C. symphycarpa* (Flörke) Fr. – SEAWARD (1996)
- C. uncialis* (L.) Weber ex F.H.Wigg. subsp. *uncialis* – EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2019), BURGAZ et al. (2020)
- C. verticillata* (Hoffm.) Schaer. – Herb. AK (leg. Khadhri 2019)
- Clauzadea chondrodes* (A.Massal.) Clauzade & Cl.Roux ex Hafellner & Türk – SEAWARD (1996)
- C. immersa* (Hoffm.) Hafellner & Bellem. – SEAWARD (1996), TEMINA et al. (2004), Herb. AK (leg. Khadhri 2020)
- C. metzleri* (Körb.) Clauzade & Cl.Roux ex D.Hawksw. – SEAWARD (1996), TEMINA et al. (2004)
- C. monticola* (Ach.) Hafellner & Bellem. – SEAWARD (1996)
- Clavascidium semaforonense* (Breuss) M.Prieto (syn. *Catapyrenium semaforonense* Breuss) – SEAWARD (1996)
- Cliostomum griffithii* (Sm.) Coppins – EKMAN (1997)
- Collema flaccidum* (Ach.) Ach. – SEAWARD (1996), TEMINA et al. (2004), NEFFATI (2013), EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2019)
- C. furfuraceum* Du Rietz – Herb. LD (leg. Runemark 1948), ARVIDSSON (1979), SEAWARD (1996), EL MOKNI et al. (2015).
- C. nigrescens* (Huds.) DC. – Herb. LD (leg. Runemark 1948), ARVIDSSON (1979), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019).
- C. ryssoleum* (Tuck.) A.Schneid. – SEAWARD (1996)
- C. subflaccidum* Degel. – SEAWARD (1996)
- C. subnigrescens* Degel. – Herb. UPS (leg. Degelius 1948), ARVIDSSON (1979), SEAWARD (1996)
- Collemopsidium calcicola* J.Steiner – ANDREANSZKY (1934), SEAWARD (1996)
- Coniocarpon cinnabarinum* DC. (syn. *Arthonia cinnabarina* (DC.) Wallr.) – GUTTOVÁ et al. (2015)
- Coscinocladium gaditanum* (Clemente) A.Crespo, Llimona & D.Hawksw. (syn. *Lecanora lisbonensis* Samp.) – SEAWARD (1996), CRESPO et al. (2004)
- **Dactylospora parasitica* (Flörke ex Spreng.) Zopf (syn. *Leciographa inspersa* (Flörke) Rehm) – WERNER (1954)
- **D. saxatilis* (Schaer.) Hafellner – SEAWARD (1996)

- Dendrographa decolorans* (Turner & Borrer) Ertz & Tehler (syn. *Schismatomma decolorans* (Turner & Borrer ex Sm.) Clauzade & Vězda) – EL MOKNI et al. (2015), BACHTOBI-BOUACHIR (2018)
- Dermatocarpon minutum* (L.) W.Mann – EL MOKNI et al. (2015)
- Diarthonis spadicea* (Leight.) Fritsch et al. (syn. *Arthonia spadicea* Leight.) – NEFFATI (2013), EL MOKNI et al. (2013a, 2015).
- Diploicia canescens* (Dicks.) A.Massal. (syn. *Buellia canescens* (Dicks.) De Not.) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016), BACHTOBI-BOUACHIR (2018)
- D. subcanescens* (Werner) Hafellner & Poelt – SEAWARD (1996)
- Diploschistes actinostomus* (Ach.) Zahlbr. – NEFFATI (2013)
- D. caesioplumbeus* (Nyl.) Vain. – NEFFATI (2013)
- D. candidissimus* (Kremp.) Zahlbr. – WERNER (1955b), SEAWARD (1996)
- D. diacapsis* (Ach.) Lumbsch – Herb. UPS (leg. Almborn 1981), SEAWARD (1996), NEFFATI (2013), GUTTOVÁ & EL MOKNI (2019).
- D. gypsaceus* (Ach.) Zahlbr. – Herb. GB (leg. Skottsberg 1924), SEAWARD (1996), KARMOUS et al. (1997), ELLAFI (2005), TABBABI (2009), TABBABI & KARMOUS (2016, 2018)
- D. muscorum* (Scop.) R.Sant. – Herb. UPS (leg. Degelius 1948), SEAWARD (1996)
- D. scruposus* (Schreb.) Norman – SEAWARD (1996)
- D. subscruposus* (Nyl.) Zahlbr. – SEAWARD (1996)
- Diplotomma alboatrum* (Hoffm.) Flot. – SEAWARD (1996), NORDIN (2000), ALONSO & EGEA (2003)
- D. chlorophaeum* (Hepp ex Leight.) Kr.P.Singh & S.R.Singh – SEAWARD (1996)
- D. dispersum* (Kremp.) Arnold – SEAWARD (1996)
- D. epipolium* (Ach.) Arnold – SEAWARD (1996)
- D. hedinii* (H. Magn.) P.Clerc & Cl.Roux – SEAWARD (1996)
- D. venustum* (Körb.) Körb. (syn. *Buellia venusta* (Körb.) Lettau) – Herb. UPS (leg. Hertel 1968), SEAWARD (1996), NORDIN (2000)
- Dirina ceratoniae* (Ach.) Fr. – Herb. UPS (leg. Follmann 1967, Degelius 1948), SEAWARD (1996), TEHLER et al. (2013), BACHTOBI-BOUACHIR (2018)
- D. massiliensis* Durieu & Mont. f. *massiliensis* – SEAWARD (1996)
- D. massiliensis* f. *sorediata* (Müll.Arg.) Tehler – SEAWARD (1996), EL MOKNI et al. (2015)
- D. monothalamia* Tehler & Ertz (syn. *paradoxa* subsp. *africana* (Fée) Tehler, incl. f. *sorediata* Egea) – SEAWARD (1996)
- Enchylium tenax* (Sw.) Gray (syn. *Collema tenax* (Sw.) Ach.) – PITARD (1909), Herb. MRDS (leg. Atherden 1995 as var. *ceranoides*), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019)
- Endocarpon pusillum* Hedw. – SEAWARD (1996)
- Enterographa crassa* (DC.) Fée – SEAWARD (1996), EL MOKNI et al. (2015)
- Ephebe lanata* (L.) Vain. – EL MOKNI et al. (2015)

- Evernia divaricata* (L.) Ach. – TABBABI (2009), EL MOKNI et al. (2013a, 2015), TABBABI & KARMOUS (2016)
- E. prunastri* (L.) Ach. – Herb. UPS (leg. Degelius 1948), Herb. DUKE (leg. Culberson 1976), SEAWARD (1996), EL MOKNI et al. (2010, 2013a, 2015, 2017), BACHTOBI-BOUACHIR (2018), Herb. AK (leg. Khadhri 2020)
- Flavoparmelia caperata* (L.) Hale (syn. *Parmelia caperata* (L.) Ach.) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), KARMOUS et al. (1997), ELLAFI (2005), NEFFATI (2013), EL MOKNI et al. (2013b, 2015), TABBABI & KARMOUS (2016, 2018), BACHTOBI-BOUACHIR (2018), Herb. AK (leg. Khadhri 2020), MENDILI et al. (2021a, 2021b)
- F. soredians* (Nyl.) Hale – EL MOKNI et al. (2013b, 2015)
- Flavoplaca austrocitrina* (Vondrák et al.) Arup, Frödén & Söchting – GUTTOVÁ et al. (2015)
- F. citrina* (Hoffm.) Arup, Frödén & Söchting – Herb. MRDS (leg. Seaward 1973)
- F. granulosa* (Müll.Arg.) Arup, Frödén & Söchting (syn. *Caloplaca granulosa* (Müll.Arg.) Jatta – SEAWARD (1996), NEFFATI (2013)
- F. marina* (Wedd.) Arup, Frödén & Söchting (syn. *Caloplaca marina* (Wedd.) Zahlbr.) – NEFFATI (2013)
- F. oasis* (A.Massal.) Szatala – Herb. MRDS (leg. Seaward 1973), GUTTOVÁ et al. (2015)
- F. polycarpa* (A.Massal.) Arup, Frödén & Söchting (syn. *Caloplaca polycarpa* (A.Massal.) Zahlbr.) – NEFFATI (2013)
- Fulgensia schistidii* (Anzi) Poelt – SEAWARD (1996)
- Fuscopannaria ignobilis* (Anzi) P.M.Jørg. (syn. *Pannaria ignobilis* Anzi) – SEAWARD (1996)
- F. mediterranea* (Tav.) P.M.Jørg. (syn. *Pannaria mediterranea* Tavares) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996).
- F. olivacea* (syn. *Pannaria olivacea* P.M.Jørg.) – Herb. UPS (leg. Degelius 1948), ARVIDSSON (1979), SEAWARD (1996)
- Gloeoheppia erosa* (J.Steiner) Marton – SEAWARD (1996)
- G. turgida* (Ach.) Gyeln. – Herb. UPS (leg. Hafellner 1982)
- Graphis elegans* (Borrer ex Sm.) Ach. – EL MOKNI et al. (2015)
- G. scripta* (L.) Ach. – EL MOKNI et al. (2015)
- Gyalecta jenensis* (Batsch) Zahlbr. – GUTTOVÁ & EL MOKNI (2019)
- G. truncigena* (Ach.) Hepp – SEAWARD (1996)
- G. ulmi* (Sw.) Zahlbr. – SEAWARD (1996)
- Gyalolechia flavorubescens* (Huds.) Söchting, Frödén & Arup (syn. *Caloplaca flavorubescens* (Huds.) J.R.Laundon, *C. aurantiaca* auct.) – SEAWARD (1996), GUTTOVÁ et al. (2015)
- G. flavovirescens* (Wulfen) Dalla Torre & Sarnth. (syn. *Caloplaca flavovirescens* (Wulfen) Söchting et al.) – NEFFATI (2013)
- G. fulgens* (Sw.) Söchting, Frödén & Arup (syn. *Fulgensia fulgens* (Sw.) Elenkin) – SEAWARD (1996)
- G. fulgida* (Nyl.) Söchting, Frödén & Arup (syn. *Fulgensia fulgida* (Nyl.) Szatala) – Herb. P (leg. Patouillard 1893), ANDREANSZKY (1934), WERNER (1955b), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), TABBABI & KARMOUS (2016) GUTTOVÁ & EL MOKNI (2019)

- G. lactea* (A.Massal.) Arnold (syn. *Caloplaca lactea* (A.Massal.) Zahlbr.) – SEAWARD (1996), NEFFATI (2013)
- G. subbracteata* (Nyl.) Søchting, Frödén & Arup (syn. *Fulgensia subbracteata* (Nyl.) Poelt) – Herb. UPS (leg. Poelt 1968), ALMBORN (1974), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- Haematomma ochroleucum* (Neck.) J.R.Laundon – GUTTOVÁ & EL MOKNI (2019)
- Heppia adglutinata* A.Massal. – GUTTOVÁ et al. (2015)
- H. crispatula* Nyl. – SEAWARD (1996)
- H. despreauxii* (Mont.) Tuck. – SEAWARD (1996)
- H. echinulata* Marton & Galun – HENSSEN (1994)
- H. solorinoides* (Nyl.) Nyl. – WERNER (1949), SEAWARD (1996)
- H. subrosulata* J.Steiner – SEAWARD (1996)
- **Heterocephalacria bachmannii* (Diederich & M.S.Christ.) Millanes & Wedin – Herb. MRDS (leg. MENDILI 2016), KHADHRI et al. (2019)
- Heterodermia obscurata* (Nyl.) Trevis. – Seaward (1996)
- Heteroplacidium contumescens* (Nyl.) Breuss (syn. *Catapyrenium contumescens* (Nyl.) Breuss) – WERNER (1949), SEAWARD (1996)
- H. fusculum* (Nyl.) Gueidan & Cl.Roux (syn. *Verrucaria fuscula* Nyl.) – BREUSS (1994), SEAWARD (1996)
- H. phaeocarpoidea* (Nyl.) Breuss (syn. *Catapyrenium phaeocarpoidea* (Nyl.) Breuss) – SEAWARD (1996)
- Huneckia pollinii* (A.Massal.) S.Y.Kondr. et al. (syn. *Caloplaca pollinii* (A.Massal.) Jatta) – GUTTOVÁ et al. (2015)
- Hydropunctaria maura* (Wahlenb. ex Ach.) C.Keller, Gueidan & Thüs – NEFFATI (2013)
- Hymenelia lacustris* (With.) M.Choisy – EL MOKNI et al. (2015)
- Hyperphyscia adglutinata* (Flörke) H.Mayrhofer & Poelt – SEAWARD (1996), NEFFATI (2013), GUTTOVÁ et al. (2015)
- Hypogymnia farinacea* Zopf – EL MOKNI et al. (2015)
- H. physodes* (L.) Nyl. – EL MOKNI et al. (2015)
- H. tubulosa* (Schaer.) Hav. – EL MOKNI et al. (2015)
- Hypotrachyna laevigata* (Sm.) Hale – EL MOKNI et al. (2013b, 2015)
- H. revoluta* (Flörke) Hale – EL MOKNI et al. (2013b, 2015)
- Julella myrticola* (B.de Lesd.) Barr – SEAWARD (1996), ALONSO & EGEE (2003)
- Lambiella insularis* (Nyl.) T.Sprib. (syn. *Rimularia insularis* (Nyl.) Hertel & Rambold) – SEAWARD (1996)
- Lasallia pustulata* (L.) Mérat – WERNER (1955a), SEAWARD (1996), EL MOKNI et al. (2015)
- Lathagrium auriforme* (With.) Otálora, P.M.Jørg. & Wedin (syn. *Collema auriforme* (With.) Coppins & J.R.Laundon – SEAWARD (1996), TEMINA et al. (2004), EL MOKNI et al. (2015)
- L. cristatum* (L.) Otálora, P.M.Jørg. & Wedin (syn. *Collema cristatum* (L.) F.H.Wigg.) – SEAWARD (1996), TEMINA et al. (2004), NEFFATI (2013), EL MOKNI et al. (2015)

- L. fuscovirens* (With.) Otálora, P.M.Jørg. & Wedin (syn. *Collema fuscovirens* (With.) J.R.Laundon) – SEAWARD (1996)
- L. latzelii* (Zahlbr.) Otálora, P.M.Jørg. & Wedin (syn. *Collema latzelii* Zahlbr.) – SEAWARD (1996)
- Lecania cyrtella* (Ach.) Th.Fr. – Herb. UPS (leg. Mayhofer & Poelt 1982), SEAWARD (1996), ALONSO & EGEA (2003)
- L. cyrtellina* (Nyl.) Sandst. – SEAWARD (1996), ALONSO & EGEA (2003)
- L. erysibe* (Ach.) Mudd – SEAWARD (1996), EL MOKNI et al. (2015)
- L. inundata* (Hepp ex Körb.) M.Mayrhofer – SEAWARD (1996)
- L. naegelia* (Hepp) Diederich & van den Boom (syn. *Bacidia naegelia* (Hepp) Zahlbr.) – SEAWARD (1996)
- L. olivacella* (Nyl.) Zahlbr. – SEAWARD (1996)
- L. spadicea* (Flot.) Zahlbr. – SEAWARD (1996), GUTTOVÁ et al. (2015)
- L. sylvestris* (Arnold) Arnold – GUTTOVÁ & EL MOKNI (2019)
- L. turicensis* (Hepp) Müll.Arg. – SEAWARD (1996), TEMINA et al. (2004), GUTTOVÁ & EL MOKNI (2019)
- Lecanographa farinosa* (Hepp) Egea & Torrente – SEAWARD (1996)
- L. lyncea* (Sm.) Egea & Torrente (syn. *Lecanactis lyncea* (Sm.) Fr.) – SEAWARD (1996)
- L. wernerii* (Faurel, Ozenda & Schotter) Egea & Torrente – SEAWARD (1996)
- Lecanora albella* (Pers.) Ach. – EL MOKNI et al. (2013a, 2015)
- L. allophana* Nyl. – Herb. P. (leg. Patouillard 1893), EL MOKNI et al. (2013a, 2015)
- L. argentata* (Ach.) Röhl. – GUTTOVÁ & EL MOKNI (2019)
- L. campestris* (Schaer.) Hue – SEAWARD (1996), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016)
- L. carpineae* (L.) Vain. – Herb. P. (leg. Patouillard 1893), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015)
- L. chlarotera* Nyl. – SEAWARD (1996), KARMOUS et al. (1997), NEFFATI (2013), EL MOKNI et al. (2013a, 2015), BACHTOBI-BOUACHIR (2018)
- L. conizaeoides* Nyl. ex Cromb. – NEFFATI (2013), EL MOKNI et al. (2015)
- L. expallens* Ach. – EL MOKNI et al. (2015)
- L. gangaleoides* Nyl. – EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2020)
- L. graeca* J.Steiner – SEAWARD (1996)
- L. horiza* (Ach.) Röhl. – SEAWARD (1996), ALONSO & EGEA (2003)
- L. intricata* (Ach.) Ach. – EL MOKNI et al. (2015)
- L. intumescens* (Rebent.) Rabenh. – Herb. UPS (leg. von Nordmann 1860)
- L. lividocinerea* Bagl. – BACHTOBI-BOUACHIR (2018)
- L. orosthea* (Ach.) Ach. – SEAWARD (1996)
- L. piniperda* Körb. – SEAWARD (1996)
- L. pitardii* (B.de Lesd.) Zahlbr. – SEAWARD (1996)

- L. polytropa* (Ehrh. ex Hoffm.) Rabenh. – EL MOKNI et al. (2015)
- L. praepostera* Nyl. (syn. *L. schistina* (Nyl.) Arnold) – SEAWARD (1996), EL MOKNI et al. (2015)
- L. rupicola* (L.) Zahlbr. (syn. *L. glaucoma* (Hoffm.) Ach.) – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015)
- L. rupicola* subsp. *sulphurata* (Ach.) Leuckert & Poelt – WERNER (1949, 1955b), SEAWARD (1996)
- L. strobilina* (Spreng.) Kieff. – EL MOKNI et al. (2013a, 2015)
- L. subcarnea* (Sw.) Ach. – EL MOKNI et al. (2015)
- L. sulphurea* (Hoffm.) Ach. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015)
- Lecidea fuscoatra* (L.) Ach. – SEAWARD (1996), TEMINA et al. (2004)
- L. lapicida* (Ach.) Ach. – EL MOKNI et al. (2015)
- L. lithophila* (Ach.) Ach. – EL MOKNI et al. (2015)
- L. promiscua* Nyl. – EL MOKNI et al. (2015)
- L. sanguineoatra* (Wulfen) Ach. – SEAWARD (1996)
- L. tessellata* Flörke – EL MOKNI et al. (2015)
- L. umbonata* (Hepp) Mudd – Herb. AK (leg. Khadhri 2020)
- Lecidella alaiensis* (Vain.) Hertel – EL MOKNI et al. (2015)
- L. carpathica* Körb. (syn. *Lecidea latypiza* Nyl.) – SEAWARD (1996), TABBABI (2009), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016)
- L. elaeochroma* (Ach.) M.Choisy (incl. var. *flavicans* (Ach.) Hertel) – SEAWARD (1996), KARMOUS et al. (1997), ALONSO & EGEA (2003), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2013a, 2015), TABBABI & KARMOUS (2016), BACHTOBI-BOUACHIR (2018)
- L. euphorea* (Flörke) Hertel – SEAWARD (1996)
- L. stigmatea* (Ach.) Hertel & Leuckert – SEAWARD (1996), EL MOKNI et al. (2015)
- Lempholemma polyanthes* (Bernh.) Malme – SEAWARD (1996)
- Lepra albescens* (Huds.) Hafellner (syn. *Pertusaria albescens* (Huds.) M.Choisy & Werner) – Herb. UPS (leg. Poelt & Wunder 1968), SEAWARD (1996), BOQUERAS (1997), EL MOKNI et al. (2015)
- L. amara* (Ach.) Hafellner (syn. *Pertusaria amara* (Ach.) Nyl.) – Herb. DUKE (leg. Culberson 1974), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2020)
- L. excludens* (Nyl.) Hafellner (syn. *Pertusaria excludens* Nyl.) – SEAWARD (1996)
- L. melanochlora* (DC.) Hafellner (syn. *Pertusaria melanochlora* (DC.) Nyl.) – SEAWARD (1996)
- L. monogona* (Nyl.) Hafellner (syn. *Pertusaria monogona* Nyl.) – SEAWARD (1996)
- L. multipuncta* (Turner) Hafellner (syn. *Pertusaria multipuncta* (Turner) Nyl.) – SEAWARD (1996)
- Lepraria incana* (L.) Ach. – NEFFATI (2013), EL MOKNI et al. (2015)
- L. neglecta* (Nyl.) Lettau – EL MOKNI et al. (2015)
- Leprocaulon microscopicum* (Vill.) Gams ex D.Hawksw. – GUTTOVÁ et al. (2015)
- Leproplaca chrysodeta* (Vain.) J.R.Laundon ex Ahti – Herb. LD (leg. Runemark 1948)
- L. xantholyta* (Nyl.) Nyl. (syn. *Caloplaca xantholyta* (Nyl.) Jatta) – NEFFATI (2013)

- Leptogium brebissonii* Mont. – Herb. LD (leg. Runemark 1948)
- L. cyanescens* (Rabenh.) Körb. – NEFFATI (2013), EL MOKNI et al. (2015)
- L. gelatinosum* var. *pulvinatum* (Hoffm.) Zahlbr. – SEAWARD (1996)
- Leptorhaphis oleae* (A.Massal.) Körb. – SEAWARD (1996), ALONSO & EGEE (2003)
- **Lichenostigma epipolina* Nav.-Ros., Calatayud & Hafellner – CALATAYUD et al. (2002: leg. Poelt 1968)
- Lichinella algerica* (J.Steiner) P.P.Moreno & Egea (syn. *Gonohymenia algerica* J.Steiner) – SEAWARD (1996)
- L. cribellifera* (Nyl.) P.P.Moreno & Egea – GUTTOVÁ et al. (2015)
- L. stipatula* Nyl. – SEAWARD (1996), GUTTOVÁ et al. (2015)
- Lobaria pulmonaria* (L.) Hoffm. – Herb. M (leg. Hertel 1968, Poelt & Wunder 1968), Herb. E (leg. Davis & Lamond 1975), SEAWARD (1996), TABBABI (2009), EL MOKNI et al. (2011b, 2015, 2017), GUTTOVÁ et al. (2015), TABBABI & KARMOUS (2016), Herb. AK (leg. Khadhri 2020)
- Lobarina scrobiculata* (Scop.) P.Gaertn. (syn. *Lobaria scrobiculata* (Scop.) DC.) – Herb. P (leg. Letourneux 1887), Herb. LD (leg. Runemark 1948), SEAWARD (1996), EL MOKNI et al. (2011b, 2015, 2017)
- Lobothallia radiosa* (Hoffm.) Hafellner (syn. *Aspicilia radiosa* (Hoffm.) Poelt & Leuckert) – SEAWARD (1996), EL MOKNI et al. (2015).
- Melanelixia glabra* (Schaer.) O.Blanco et al. (syn. *Parmelia glabra* (Schaer.) Nyl.) – SEAWARD (1996), NEFFATI (2013)
- M. glabrata* (Lamy) Sandler & Arup (syn. *Parmelia glabrata* (Lamy) Nyl.) – SEAWARD (1996), EL MOKNI et al. (2013b, 2015), GUTTOVÁ & EL MOKNI (2019)
- M. subargentifera* (Nyl.) O.Blanco et al. – EL MOKNI et al. (2013b, 2015)
- M. subaurifera* (Nyl.) O.Blanco et al. (syn. *Parmelia subaurifera* Nyl.) – Herb. LD (leg. Runemark 1948), SEAWARD (1996), EL MOKNI et al. (2013b, 2015)
- Melanohalea exasperata* (De Not.) O.Blanco et al. – NEFFATI (2013), EL MOKNI et al. (2015)
- M. laciniatula* (Flagey ex H.Olivier) O.Blanco et al. – EL MOKNI et al. (2013b, 2015)
- **Merismatium discrepens* (Arnold) Triebel – Herb. M (leg. Triebel 1984), TRIEBEL (1989)
- Micarea bauschiana* (Körb.) V.Wirth & Vězda – EL MOKNI et al. (2015)
- Myriolecis albescens* (Hoffm.) Šliwa, Zhao Xin & Lumbsch (syn. *Lecanora albescens* (Hoffm.) Branth. & Rostr.) – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015)
- M. crenulata* (Wallr.) Šliwa, Zhao Xin & Lumbsch (syn. *Lecanora crenulata* (Dicks.) Hook.) – PITARD (1909), SEAWARD (1996)
- M. dispersa* (Pers.) Šliwa, Zhao Xin & Lumbsch (syn. *Lecanora dispersa* (Pers.) Sommerf.) – SEAWARD (1996)
- M. hagenii* (Ach.) Šliwa, Zhao Xin & Lumbsch (syn. *Lecanora hagenii* (Ach.) Ach.) – EL MOKNI et al. (2013a, 2015)
- M. pruinosa* (Chaub.) Šliwa, Zhao Xin & Lumbsch (syn. *Lecanora pruinosa* Chaub.) – WERNER (1949), SEAWARD (1996), TEMINA et al. (2004)
- **Naetrocymbe punctiformis* (Pers.) R.C.Harris (syn. *Arthopyrenia punctiformis* (Pers.) A.Massal.) – SEAWARD (1996), ALONSO & EGEE (2003)

- Naevia dispersa* (Schrad.) Thiyagaraja, Lücking & K.D.Hyde (syn. *Arthonia dispersa* (Schrad.) Nyl.) – Herb. MRDS (leg. Atherden 1995), SEAWARD (1996), ALONSO & EGEA (2003)
- Nephroma laevigatum* Ach. – SEAWARD (1996), EL MOKNI et al. (2015)
- N. parile* (Ach.) Ach. – EL MOKNI et al. (2015)
- N. resupinatum* (L.) Ach. – NEFFATI (2013)
- N. tangeriense* (Maheu & A. Gillet) Zahlbr. – SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- Nephromopsis chlorophylla* (Willd.) Divakar, A.Crespo & Lumbsch (syn. *Cetraria chlorophylla* (Willd.) Vain.) – EL MOKNI et al. (2015)
- **Nesolechia oxyspora* (Tul.) A.Massal. – PITARD & BOULY DE LESDAIN (1909)
- Nevesia sampaiana* (Tav.) P.M.Jørg. et al. (syn. *Pannaria sampaiana* Tav.) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996)
- Normandina pulchella* (Boffter) Nyl. – SEAWARD (1996), GUTTOVÁ et al. (2015), EL MOKNI et al. (2015)
- Ocellomma picconianum* (Bagl.) Ertz & Tehler (syn. *Schismatomma picconianum* (Bagl.) J.Steiner) – Herb. UPS (leg. Hafellner & Poelt 1982), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- Ochrolechia balcanica* Verseghy – SEAWARD (1996)
- O. harmandii* Verseghy – SEAWARD (1996)
- O. parella* (L.) A.Massal. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a, 2015)
- O. subviridis* (Høeg) Erichsen – SEAWARD (1996)
- O. tartarea* (L.) A.Massal. – EL MOKNI et al. (2013a)
- Omphalodina chrysoleuca* (Sm.) S.Y.Kondr., L.Lókös & Farkas – Herb. AK (leg. Khadhri 2019)
- Opegrapha celtidicola* (Jatta) Jatta – BACHTOBIJ-BOUACHIR (2018)
- O. circumducta* Nyl. – SEAWARD (1996)
- O. deusta* Jatta – SEAWARD (1996)
- O. durieui* Mont. – SEAWARD (1996)
- O. endoleuca* Nyl. – Herb. UPS (leg. Hafellner 1982), SEAWARD (1996)
- O. lichenoides* Pers. – EL MOKNI et al. (2015)
- **O. rupestris* Pers. – SEAWARD (1996), TEMINA et al. (2004)
- O. stictica* Nyl. – EL MOKNI et al. (2015)
- O. tunetana* B.de Lesd. – SEAWARD (1996)
- O. vulpina* Vondrak, Kocourk. & Tretiach – Herb. MRDS (leg. Seaward 1973)
- Ophioparma ventosa* (L.) Norman – EL MOKNI et al. (2015)
- Pannaria conoplea* (Ach.) Bory – EL MOKNI et al. (2015)
- P. rubiginosa* (Ach.) Bory – ARVIDSSON (1979), SEAWARD (1996), EL MOKNI et al. (2015)
- Paralecanographa grumulosa* (Dufour) Ertz & Tehler (syn. *Lecanactis grumulosa* (Dufour) Fr.) – SEAWARD (1996)
- Parmelia saxatilis* (L.) Ach. – WERNER (1955a), SEAWARD (1996), EL MOKNI et al. (2013b, 2015), GUTTOVÁ & EL MOKNI (2019)

- P. serrana* A.Crespo, M.C.Molina & D.Hawksw. – Herb. LD (leg. Runemark 1948)
- P. submontana* Nádv. ex Hale – HALE (1987), SEAWARD (1996)
- P. sulcata* Taylor – SEAWARD (1996), EL MOKNI et al. (2013b, 2015)
- Parmelina carporrhizans* (Taylor) Hale – Herb. LD (leg. Runemark 1948), NEFFATI (2013), EL MOKNI et al. (2015)
- P. pastillifera* (Harm.) Hale – NEFFATI (2013), EL MOKNI et al. (2013b, 2015)
- P. quercina* (Willd.) Hale (syn. *Parmelia quercina* (Willd.) Vain.) – SEAWARD (1996), EL MOKNI et al. (2013b), Herb. AK (leg. Khadhri 2019)
- P. tiliacea* (Hoffm.) Hale (syn. *Parmelia tiliacea* (Hoffm.) Ach.) – Herb. DUKE (leg. Culberson 1976), SEAWARD (1996), TEMINA et al. (2004), NEFFATI (2013), EL MOKNI et al. (2011a, 2013a, 2013b, 2015, 2017), BACHTOBI-BOUACHIR (2018), Herb. AK (leg. Khadhri 2020)
- Parmotrema crinitum* (Ach.) M.Choisy – EL MOKNI et al. (2013b, 2015)
- P. hypoleucinum* (J.Steiner) Hale – EL MOKNI et al. (2015)
- P. perlatum* (Huds.) M.Choisy (syn. *Parmelia perlata* (Huds.) Ach.) – SEAWARD (1996), TABBABI (2009), EL MOKNI et al. (2011a, 2013a, 2013b, 2015, 2017), NEFFATI (2013), BACHTOBI-BOUACHIR (2018), Herb. AK (leg. Khadhri 2020)
- P. stuppeum* (Taylor) Hale – GUTTOVÁ & EL MOKNI (2019)
- P. wernerii* M.Choisy (syn. *Parmelia wernerii* (M.Choisy) Zahlbr.) – SEAWARD (1996)
- **Patellaria atrata* (Hedw.) Fr. (syn. *Lecanidion atratum* (Hedw. ex Fr.) Rabenh.) – HUE (1897 as *Lecidea premnea* var. *tunisea* Hue), Herb. MRDS (leg. Seaward 1973), EGEA & TORRENTE (1993)
- Peccania coralloides* (A.Massal.) A.Massal. (syn. *Omphalaria coralloides* (A.Massal.) Hepp) – WERNER (1939, 1955b), SEAWARD (1996), GUTTOVÁ et al. (2015)
- P. fontqueriana* P.P.Moreno & Egea – GUTTOVÁ et al. (2015)
- P. synaliza* (Ach.) Forssell – SEAWARD (1996)
- P. tiruncula* (Nyl.) Henssen – GUTTOVÁ et al. (2015)
- Pectenien atlantica* (Degel.) P.M.Jørg. et al. (syn. *Degelia atlantica* (Degel.) P.M.Jørg. & P.James) – Herb. LD (leg. Runemark 1948), ARVIDSSON (1979), SEAWARD (1996).
- P. plumbea* (Lightf.) P.M.Jørg. et al. (syn. *Degelia plumbea* (Lightf.) P.M.Jørg. & P.James) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- Peltigera aphthosa* (L.) Willd. – EL MOKNI et al. (2015)
- P. canina* (L.) Willd. – EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2019)
- P. collina* (Ach.) Schrad. – SEAWARD (1996)
- P. horizontalis* (Huds.) Baumg. – EL MOKNI et al. (2015)
- P. malacea* (Ach.) Funck – Herb. AK (leg. Khadhri 2020)
- P. neckeri* Hepp ex Müll.Arg. – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- P. polydactylon* (Neck.) Hoffm. – EL MOKNI et al. (2015 as *P. 'polydactyla'*), GUTTOVÁ & EL MOKNI (2019)
- P. praetextata* (Flörke ex Sommerf.) Zopf – Herb. P (leg. Pitard 1907), Herb. LD (leg. Runemark 1948), SEAWARD (1996)

- P. rufescens* (Weiss) Humb. – EL MOKNI et al. (2015)
- Peltula euploca* (Ach.) Poelt ex Pišút – SEAWARD (1996)
- P. obscuratula* (Nyl.) Egea – SEAWARD (1996)
- P. radicata* Nyl. – SEAWARD (1996)
- Pertusaria colliculosa* Körb. – SEAWARD (1996)
- P. debazaci* Werner – SEAWARD (1996)
- P. ficorum* Zahlbr. – SEAWARD (1996)
- P. flavida* (DC.) J.R.Laundon – Herb. DUKE (leg. Culberson 1964), SEAWARD (1996), TABBABI (2009), TABBABI & KARMOUS (2016)
- P. gallica* B.de Lesd. – SEAWARD (1996)
- P. heterochroa* (Müll.Arg.) Erichsen – SEAWARD (1996), ALONSO & EGEEA (2003)
- P. hymenea* (Ach.) Schaer. – SEAWARD (1996)
- P. ilicicola* Harm. – SEAWARD (1996)
- P. lactea* (L.) Arnold – EL MOKNI et al. (2015)
- P. leioplaca* DC. – SEAWARD (1996)
- P. pertusa* (L.) Tuck. – Herb. DUKE (leg. Culberson 1974), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a, 2015).
- P. pertusa* var. *polycarpa* (Clemente) Zahlbr. – SEAWARD (1996)
- P. pertusa* var. *rupestrus* (DC.) Dalla Torre & Sarnth. – SEAWARD (1996)
- P. pseudocorallina* (Lilj.) Arnold – ANDREANSZKY (1934), SEAWARD (1996)
- P. rupicola* (Fr.) Harm. – EL MOKNI et al. (2015)
- P. teneriffensis* Vain. – SEAWARD (1996)
- Phaeophyscia cernohorskyi* (Nád.v.) Essl. – SEAWARD (1996)
- P. hirsuta* (Mereschk.) Essl. – SEAWARD (1996), KARMOUS et al. (1997), TEMINA et al. (2004), NEFFATI (2013), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019)
- P. orbicularis* (Neck.) Moberg – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), EL MOKNI et al. (2015)
- P. sciastra* (Ach.) Moberg – SEAWARD (1996)
- Phlyctis agelaea* (Ach.) Flot. – SEAWARD (1996), EL MOKNI et al. (2013a, 2015), Herb. AK (leg. Khadhri 2020)
- P. argena* (Ach.) Flot. – EL MOKNI et al. (2015)
- Physcia adscendens* (Fr.) H.Olivier – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a, 2015, 2017), BACHTOBJI-BOUACHIR (2018), GUTTOVÁ & EL MOKNI (2019)
- P. aipolia* (Ehrh. ex Humb.) Fűrnr. – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a, 2015, 2017)
- P. biziana* (A.Massal.) Zahlbr. – SEAWARD (1996), GUTTOVÁ et al. (2015), GUTTOVÁ & EL MOKNI (2019), Herb. AK (leg. Khadhri 2020)

- P. caesia* (Hoffm.) Fűrnr. (syn. *P. caesia* var. *caesiella* (B.de Lesd.) Clauzade & Cl.Roux) – SEAWARD (1996), EL MOKNI et al. (2015)
- P. clementei* (Turner) Lyngé – SEAWARD (1996)
- P. dubia* (Hoffm.) Lettau – EL MOKNI et al. (2015)
- P. leptalea* (Ach.) DC. (syn. *P. semipinnata* (Leers ex J.F.Gmel.) Moberg) – PITARD (1909 as *P. adscendens* f. *leptalea* Ach.), Herb. UPS (leg. Degelius 1948), SEAWARD (1996), EL MOKNI et al. (2013a, 2015, 2017), Herb. AK (leg. Khadhri, 2020)
- P. phaea* (Tuck.) J.W.Thomson – GUTTOVÁ & EL MOKNI (2019)
- P. stellaris* (L.) Nyl. – SEAWARD (1996), NEFFATI (2013), Herb. AK (leg. Khadhri 2020)
- P. tenella* (Scop.) DC. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2013a, 2015), BACHTOBI-BOUACHIR (2018)
- P. tribacia* (Ach.) Nyl. – NEFFATI (2013)
- Physconia distorta* (With.) J.R.Laundon – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015, 2017)
- P. enteroxantha* (Nyl.) Poelt – Herb. UPS (leg. Degelius 1948), Herb. DUKE (leg. Culberson 1976), SEAWARD (1996)
- P. grisea* (Lam.) Poelt – EL MOKNI et al. (2015, 2017)
- P. muscigena* (Ach.) Poelt – WERNER (1946), SEAWARD (1996)
- P. perisidiosa* (Erichsen) Moberg – SEAWARD (1996)
- P. servitii* (Nádv.) Poelt – Herb. DUKE (leg. Culberson 1974), SEAWARD (1996)
- P. subpulverulenta* (Szatala) Poelt – Herb. UPS (leg. Degelius 1948)
- P. venusta* (Ach.) Poelt – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), TEMINA et al. (2004), EL MOKNI et al. (2015), Herb. AK (leg. Khadhri 2020)
- Physma omphalarioides* (Anzi) Arnold – ARVIDSSON (1979), SEAWARD (1996)
- Placocarpus schaeferi* (Fr.) Breuss – WERNER (1939, 1955b), SEAWARD (1996)
- Placolecis opaca* (Dufour) Hafellner – SEAWARD (1996)
- Placynthium nigrum* (Huds.) Gray – SEAWARD (1996), NEFFATI (2013)
- P. tremniacum* (A.Massal.) Jatta – SEAWARD (1996)
- Platismatia glauca* (L.) W.L.Culb. & C.F.Culb. – EL MOKNI et al. (2015)
- **Plectocarpon lichenum* (Sommerf.) D.Hawksw. – Herb. M (leg. Hertel 1968, Poelt & Wunder 1968)
- Pleopsideium chlorophanum* (Wahlenb.) Zopf – SEAWARD (1996)
- Pleurosticta acetabulum* (Neck.) Elix & Lumbsch (syn. *Parmelia acetabulum* (Neck.) Duby) – Herb. LD (leg. Runemark 1948), SEAWARD (1996), EL MOKNI et al. (2013b, 2015)
- Polyblastia cupularis* A.Massal. (syn. *P. fuscoargillacea* Anzi) – NEFFATI (2013)
- Polycauliona polycarpa* (Hoffm.) Frödén, Arup & Sjøchting (syn. *Xanthoria polycarpa* (Hoffm.) Th.Fr. ex Rieber) – NEFFATI (2013), EL MOKNI et al. (2013a, 2015)
- Polychidium muscicola* (Sw.) Gray (syn. *Leptogium muscicola* (Sw.) Fr.) – SEAWARD (1996), GUTTOVÁ et al. (2015)

- **Polycoccum marmoratum* (Kremp.) D. Hawksw. (syn. *Microthelia marmorata* (Kremp.) Hepp) – Herb. COLO.
- Polysporina simplex* (Taylor) Vězda – SEAWARD (1996)
- Porina linearis* (Leight.) Zahlbr. – SEAWARD (1996)
- Porpidia cinereoatra* (Ach.) Hertel & Knoph – Herb. DUKE (leg. Pitard 1908), SEAWARD (1996)
- P. crustulata* (Ach.) Hertel & Knoph – EL MOKNI et al. (2015)
- P. hydrophila* (Fr.) Hertel & Knoph – SEAWARD (1996)
- P. macrocarpa* (DC.) Hertel & A.J.Schwab – Herb. UPS (leg. Hertel 1968), SEAWARD (1996)
- Protoblastenia calva* (Dicks.) Zahlbr. – Herb. M (leg. Triebel 1984), SEAWARD (1996)
- Protoparmelia badia* (Hoffm.) Hafellner (syn. *Lecanora badia* (Hoffm.) Ach.) – EL MOKNI et al. (2015)
- P. psarophana* (Nyl.) Sancho & A.Crespo – WERNER (1949), SEAWARD (1996)
- Protoparmeliopsis muralis* (Schreb.) M.Choisy (syn. *Lecanora muralis* (Schreb.) Rabenh.) – Herb. UPS (leg. Pitard 1908), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016)
- Pseudevernia furfuracea* (L.) Zopf (s.lat. – probably var. *ceratea*) – EL MOKNI et al. (2010, 2013a, 2015)
- P. furfuracea* var. *ceratea* (Ach.) D.Hawksw. – SEAWARD (1996)
- Pseudosagedia byssophila* (Körb. ex Hepp) Hafellner & Kalb – SEAWARD (1996)
- Psilolechia lucida* (Ach.) M.Choisy – EL MOKNI et al. (2015)
- Psora decipiens* (Hedw.) Hoffm. – PITARD (1909), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), GUTTOVÁ et al. (2015), TABBABI & KARMOUS (2016), GUTTOVÁ & EL MOKNI (2019)
- P. saviczii* (Tomin) Follmann & A.Crespo – SEAWARD (1996)
- P. vallesiaca* (Schaer.) Timdal – SEAWARD (1996)
- Psorotichia numidella* (Nyl.) Forssell – SEAWARD (1996)
- P. obtenebrans* (Nyl.) Forssell – SEAWARD (1996)
- Punctelia borreri* (Sm.) Krog – EL MOKNI et al. (2013b, 2015)
- P. subrudecta* (Nyl.) Krog (syn. *Parmelia subrudecta* Nyl.) – Herb. LD (leg. Runemark 1948), SEAWARD (1996)
- Pyrenodesmia agardhiana* (Flot.) A.Massal. (syn. *Caloplaca agardhiana* (Flot.) Flagey) – ANDREANSZKY (1934), SEAWARD (1996)
- P. alociza* (A.Massal.) Arnold (syn. *Caloplaca alociza* (A.Massal.) Mig.) – Herb. GB (leg. Skottsberg 1924), SEAWARD (1996), TEMINA et al. (2004)
- P. chalybaea* (Fr.) A.Massal. (syn. *Caloplaca chalybaea* (Fr.) Müll.Arg.) – SEAWARD (1996), EL MOKNI et al. (2015)
- P. variabilis* (Pers.) A.Massal. (syn. *Caloplaca variabilis* (Pers.) Müll.Arg. – Herb. Duke (leg. Pitard 1908), PITARD (1909 as var. *candida*), SEAWARD (1996), TEMINA et al. (2004)
- P. variabilis* var. *bullosa* Flagey (syn. *Caloplaca variabilis* var. *bullosa* (Flagey) Zahlbr.) – SEAWARD (1996)
- Pyrenopsis triptococca* Nyl. – SEAWARD (1996)

- Pyrenula chlorospila* (Nyl.) Arnold – SEAWARD (1996)
- Pyrrhospora querneae* (Dicks.) Körb. – Herb. LD (leg. Runemark 1948), BACHTOBI-BOUACHIR (2018)
- Ramalina arabum* (Dill. ex Ach.) Mayen & Flot. (syn. *Alectoria arabum* Dill. ex Ach.) – Herb. UPS (leg. Berner 1949), BOULY DE LESDAIN (1954)
- R. calicaris* (L.) Röhl. – Herb. P (leg. Pitard 1907), Herb. UPS (leg. Degelius 1948), SEAWARD (1996), EL MOKNI et al. (2010, 2015), Herb. AK (leg. Khadhri 2019)
- R. canariensis* J.Steiner – SEAWARD (1996), ALONSO & EGEE (2003), EL MOKNI et al. (2015), BACHTOBI-BOUACHIR (2018)
- R. capitata* (Ach.) Nyl. – WERNER (1946)
- R. evernioides* Nyl. – Herb. P (leg. Kralik 1854), PITARD (1909), Herb. DUKE (leg. Culberson 1976)
- R. farinacea* (L.) Ach. – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), EL MOKNI et al. (2013a, 2015, 2017), BACHTOBI-BOUACHIR (2018), Herb. AK (leg. Khadhri 2020)
- R. fastigiata* (Pers.) Ach. – EL MOKNI et al. (2010, 2013a, 2015, 2017), NEFFATI (2013), Herb. AK (leg. Khadhri 2020)
- R. fraxinea* (L.) Ach. – Herb. DUKE (leg. Culberson 1976), EL MOKNI et al. (2010, 2015, 2017), Herb. AK (leg. Khadhri 2019)
- R. implexa* (Nyl.) Krog – Herb. B (leg. Berner 1949)
- R. lacera* (With.) J.R.Laundon – SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), TABBABI & KARMOUS (2016), BACHTOBI-BOUACHIR (2018), Herb. AK (leg. Khadhri 2019)
- R. pollinaria* (Westr.) Ach. – NEFFATI (2013), EL MOKNI et al. (2015)
- R. polymorpha* (Lilj.) Ach. – SEAWARD (1996), NEFFATI (2013), EL MOKNI et al. (2015)
- R. pusilla* Le Prévost ex Duby – BACHTOBI-BOUACHIR (2018)
- R. requienii* (De Not.) Jatta – CZECHUGA & EGEE (1990), SEAWARD (1996)
- R. siliquosa* (Huds.) A.L.Sm. – EL MOKNI et al. (2015)
- R. subfarinacea* (Cromb.) Nyl. – SEAWARD (1996)
- R. subgeniculata* Nyl. – GUTTOVÁ & EL MOKNI (2019)
- Rhizocarpon geminatum* Körb. – EL MOKNI et al. (2015)
- R. geographicum* (L.) DC. (s.lat., incl. *R. tenei* (Tornab.) Runemark – SEAWARD (1996)
- R. lavatum* (Fr.) Hazsl. – EL MOKNI et al. (2015)
- R. lecanorinum* Anders – EL MOKNI et al. (2015)
- R. obscuratum* (Ach.) A.Massal. – SEAWARD (1996)
- R. oportense* (Vain.) Räsänen – SEAWARD (1996)
- R. polycarpum* (Hepp) Th.Fr. – EL MOKNI et al. (2015)
- Ricasolia amplissima* (Scop.) De Not. (syn. *Lobaria amplissima* (Scop.) Forss.) – Herb. UPS (leg. Degelius 1948), SEAWARD (1996), GUTTOVÁ et al. (2015), EL MOKNI et al. (2011b, 2015, 2017)
- R. virens* (With.) H.H.Blom & Tønberg (syn. *Lobaria virens* (With.) J.R.Laundon) – EL MOKNI et al. (2011b, 2015, 2017)
- Rinodina anomala* (Zahlbr.) H.Mayrhofer & Giralto – SEAWARD (1996), ALONSO & EGEE (2003)

- R. atrocinerea* (Dicks.) Körb. – EL MOKNI et al. (2015)
- R. bischoffii* (Hepp) A.Massal. – MAYRHOFFER & POELT (1979), SEAWARD (1996)
- R. cretica* H.Mayrhofer – SEAWARD (1996)
- R. dubyana* (Hepp) J.Steiner – MAYRHOFFER & POELT (1979), Herb. UPS (leg. Mayrhofer et al. 1982), SEAWARD (1996)
- R. exigua* (Ach.) Gray – SEAWARD (1996)
- R. gennarii* Bagl. – SEAWARD (1996)
- R. guzzinii* Jatta – SEAWARD (1996)
- R. immersa* (Körb.) J.Steiner – SEAWARD (1996)
- R. lecanorina* (A.Massal.) A.Massal. – SEAWARD (1996)
- R. luridescens* (Anzi) Arnold – SEAWARD (1996)
- R. plana* H.Magn. – SEAWARD (1996)
- R. pruinella* Bagl. – SEAWARD (1996)
- R. pyrina* (Ach.) Arnold – GUTTOVÁ & EL MOKNI (2019)
- R. roboris* (Dufour ex Nyl.) Arnold – SEAWARD (1996)
- R. teichophila* (Nyl.) Arnold – Herb. UPS (leg. Degelius 1948)
- R. tunicata* H.Mayrhofer & Poelt – MAYRHOFFER & POELT (1979), SEAWARD (1996)
- Rinodinella controversa* (A.Massal.) H.Mayrhofer & Poelt – SEAWARD (1996)
- Roccella phycopsis* Ach. – Herb. P. (leg. Guillemin 1832), Herb. DUKE (leg. Leuckert & Hertel 1968), Herb. UPS (leg. Mayrhofer et al. 1982), SEAWARD (1996), NEFFATI (2013), BACHTOBI-BOUACHIR (2018), GUTTOVÁ & EL MOKNI (2019), Herb. AK (leg. Khadhri 2019)
- R. vicentina* (Vain.) Vain. – SEAWARD (1996)
- Romularia lurida* (Ach.) Timdal (syn. *Psora lurida* (With.) DC.) – SEAWARD (1996)
- Rufoplaca arenaria* (Pers.) Arup, Søchting & Frödén (syn. *Caloplaca arenaria* Müll.Arg.) – EL MOKNI et al. (2015)
- Sagiolechia protuberans* (Ach.) A.Massal. – Herb. MRDS (leg. Seaward 1973)
- Sarcogyne algerica* H.Magn. (syn. *Biatorella algerica* (H. Magn.) Zahlbr.) – SEAWARD (1996)
- S. privigna* (Ach.) A.Massal. (syn. *Biatorella privigna* (Ach.) Sandst.) – SEAWARD (1996)
- S. regularis* Körb. – ANDREANSZKY (1934), WERNER (1949), Herb. MRDS (leg. Atherden 1995), SEAWARD (1996)
- Schaereria fuscocinerea* (Nyl.) Clauzade & Cl.Roux – EL MOKNI et al. (2015)
- Schismatomma albocinctum* (Nyl.) Zahlbr. – SEAWARD (1996)
- S. dirinellum* (Nyl.) Zahlbr. – SEAWARD (1996), ALONSO & EGEE (2003)
- Sclerophyton circumscriptum* (Taylor) Zahlbr. – SEAWARD (1996)
- Scytinium fragile* (Taylor) Otálora, P.M.Jørg. & Wedin – Herb. UPS (leg. Poelt & Mayrhofer 1982)
- S. gelatinosum* (With.) Otálora, P.M.Jørg. & Wedin (syn. *Leptogium gelatinosum* (With.) J.R.Laundon) – SEAWARD (1996)

- S. palmatum* (Huds.) Gray – GUTTOVÁ et al. (2015)
- S. schraderi* (Ach.) Otálora, P.M.Jørg. & Wedin – GUTTOVÁ et al. (2015)
- S. turgidum* (Ach.) Otálora, P.M.Jørg. & Wedin – GUTTOVÁ et al. (2015)
- S. tenuissimum* (Dicks.) Otálora, P.M.Jørg. & Wedin – GUTTOVÁ et al. (2015)
- Seiophora contortuplicata* (Ach.) Frödén – GUTTOVÁ et al. (2015)
- S. lacunosa* (Rupr.) Frödén – CZECZUGA & EGEA (1990)
- S. villosa* (Ach.) Frödén (syn. *Teloschistes villosus* (Ach.) Norman) – Herb. MANCH (leg. Gandoger 1907), PITARD (1909), SEAWARD (1996), GUTTOVÁ et al. (2015), EL MOKNI et al. (2015, 2017)
- Solenopsora candicans* (Dicks.) J.Steiner – SEAWARD (1996), GUTTOVÁ et al. (2015)
- S. grisea* (Bagl.) Kotlov – GUTTOVÁ et al. (2015)
- S. olivacea* (Dufour) H.Kiliass subsp. *olivacea* – GUTTOVÁ et al. (2015)
- S. vulturiensis* A.Massal. – SEAWARD (1996), GUTTOVÁ et al. (2015)
- **Sphinctrina anglica* Nyl. (syn. *S. microcephala* (Sm.) Nyl.) – PITARD & BOULY DE LESDAIN (1909), WERNER (1951a), FAUREL et al. (1951)
- **S. turbinata* Fr. – EGEA et al. (1990)
- Spilonema revertens* Nyl. – EL MOKNI et al. (2015)
- Squamarina cartilaginea* (With.) P.James – Herb. P (leg. Patouillard 1893), PITARD (1909), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), NEFFATI (2013), TABBABI & KARMOUS (2016), Herb. AK (leg. Khadhri 2019), MENDILI et al. (2021a, 2021b)
- S. cartilaginea* var. *algeriensis* Hue – SEAWARD (1996)
- S. concrescens* (Müll.Arg.) Poelt – SEAWARD (1996), GUTTOVÁ & EL MOKNI (2019)
- S. gypsacea* (Sm.) Poelt (syn. *Lecanora fragilis* (Scop.) Zahlbr. – PITARD (1909), WERNER (1939, 1955b), SEAWARD (1996)
- S. lentigera* (Weber) Poelt – Herb. P (leg. Patouillard 1893), PITARD (1909), SEAWARD (1996)
- S. periculosa* (Schaer.) Poelt – SEAWARD (1996)
- S. stella-petraea* Poelt – SEAWARD (1996)
- Staurolemma omphalarioides* (Anzi) P.M.Jørg. & Henssen – Herb. UPS (leg. Degelius 1948)
- Staurothele andreanszkyi* Szatala – ANDREANSZKY (1934), SEAWARD (1996)
- S. hymenogonia* (Nyl.) Th.Fr. – ANDREANSZKY (1934), Herb. MRDS (leg. Atherden 1995), SEAWARD (1996)
- Stereocaulon dactylophyllum* Flörke – NEFFATI (2013)
- Sticta fuliginosa* (Hoffm.) Ach. – EL MOKNI et al. (2015)
- S. sylvatica* (Huds.) Ach. – EL MOKNI et al. (2015)
- Synalissa symphorea* (Ach.) Nyl. (syn. *S. ramulosa* (Hoffm.) Körb.) – GUTTOVÁ et al. (2015)
- Syncesia myrticola* (Fée) Tehler (syn. *Chiodecton myrticola* Fée) – SEAWARD (1996)
- Teloschistes chrysophthalmus* (L.) Th.Fr. – EL MOKNI et al. (2013a, 2015, 2017), GUTTOVÁ et al. (2015), Herb. AK (leg. Khadhri 2020)

- Tephromela atra* (Huds.) Hafellner – SEAWARD (1996), GUTTOVÁ et al. (2015), EL MOKNI et al. (2015), GUTTOVÁ & EL MOKNI (2019)
- Thalloidima opuntioides* (Vill.) Kistenich et al. (syn. *Toninia opuntioides* (Vill.) Timdal) – SEAWARD (1996)
- T. physaroides* (Opiz) Opiz (syn. *Toninia physaroides* (Opiz) Zahlbr.) – SEAWARD (1996)
- T. sedifolium* (Scop.) Kistenich et al. (syn. *Toninia sedifolia* (Scop.) Timdal) – PITARD (1909), ANDREANSZKY (1934), SEAWARD (1996), KARMOUS et al. (1997), GUTTOVÁ & EL MOKNI (2019)
- Thelenella modesta* (Nyl.) Nyl. – ALONSO & EGEA (2003)
- Thelopsis isiaca* Stizenb. – Herb. UPS (leg. Hafellner & Poelt 1982), SEAWARD (1996), GUTTOVÁ et al. (2015), GUTTOVÁ & EL MOKNI (2019)
- Thyrea frustillata* (Nyl.) Zahlbr. – SEAWARD (1996)
- T. girardii* (Durieu & Mont.) Bagl. & Carestia – SEAWARD (1996)
- T. plicatissima* (Nyl.) Zahlbr. – SEAWARD (1996)
- T. tiruncula* (Nyl.) Zahlbr. – SEAWARD (1996)
- Toninia albilabra* (Dufour) H.Olivier – SEAWARD (1996)
- T. athallina* (Hepp) Timdal – SEAWARD (1996)
- T. cinereovirens* (Schaer.) A.Massal. – SEAWARD (1996)
- T. tristis* (Th.Fr.) Th.Fr. – WERNER (1939, 1955b), SEAWARD (1996)
- Toniniopsis aromatica* (Sm.) Kistenich et al. (syn. *Toninia aromatica* (Sm.) A.Massal.) – SEAWARD (1996)
- Tornabea scutellifera* (With.) J.R.Laundon – Herb. MANCH (leg. Gandoger 1907), WERNER (1975), SEAWARD (1996), GUTTOVÁ et al. (2015), BACHTOBI-BOUACHIR (2018)
- Trapelia coarctata* (Turner) M.Choisy – EL MOKNI et al. (2015)
- Umbilicaria crustulosa* (Ach.) Lamy – EL MOKNI et al. (2015, 2017), GUTTOVÁ & EL MOKNI (2019)
- U. cylindrica* (L.) Delise – EL MOKNI et al. (2015, 2017)
- U. hirsuta* (Sw. ex Westr.) Hoffm. – EL MOKNI et al. (2015, 2017)
- Usnea articulata* (L.) Hoffm. – EL MOKNI & CLERC (2020)
- U. cornuta* Körb. – EL MOKNI et al. (2015, 2017)
- U. esperantiana* P.Clerc – EL MOKNI & CLERC (2020)
- U. filipendula* Stirt. – EL MOKNI et al. (2015, 2017)
- U. glabrescens* (Nyl. ex Vain.) Vain. – EL MOKNI et al. (2015)
- U. hirta* (L.) Weber ex F.H.Wigg. – SEAWARD (1996), TABBABI (2009), EL MOKNI et al. (2015, 2017), TABBABI & KARMOUS (2016)
- U. rubicunda* Stirt. – Herb. AK (leg. Khadhri 2019)
- U. wirthii* P.Clerc – SEAWARD (1996)
- Vahliella leucophaea* (Vahl) P.M.Jørg. (syn. *Pannaria leucophaea* (Vahl.) P.M.Jørg.) – EL MOKNI et al. (2015)

- Varicellaria hemisphaerica* (Flörke) I.Schmitt & Lumbsch (syn. *Pertusaria hemisphaerica* (Flörke) Erichsen) – Herb.DUKE (leg. Culberson 1964), SEAWARD (1996)
- V. lactea* (L.) I.Schmitt & Lumbsch (syn. *Pertusaria lactea* (L.) Arnold) – SEAWARD (1996)
- V. velata* (Turner) I.Schmitt & Lumbsch (syn. *Pertusaria velata* (Turner) Nyl.) – SEAWARD (1996)
- Variospora aurantia* (Pers.) Arup, Frödén & Søchting (syn. *Caloplaca aurantia* (Pers.) J.Steiner) – PITARD (1909), Herb. UPS (leg. Degelius 1948), SEAWARD (1996), KARMOUS et al. (1997), TABBABI (2009), GUTTOVÁ et al. (2015), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016)
- V. dolomiticola* (Hue) Arup, Søchting & Frödén (syn. *Caloplaca velana* sensu auct.) – SEAWARD (1996)
- V. flavescens* (Huds.) Arup, Frödén & Søchting (syn. *Caloplaca flavescens* (Huds.) J.R.Laundon) – SEAWARD (1996), TEMINA et al. (2004), NEFFATI (2013), EL MOKNI et al. (2015)
- Verrucaria beltraminiana* (A.Massal.) Trevis. – SEAWARD (1996)
- V. canella* Nyl. – Herb. MRDS (leg. Seaward 1973)
- V. hochstetteri* Fr. – SEAWARD (1996)
- V. macrostoma* Dufour ex DC. – SEAWARD (1996)
- V. muralis* Ach. – SEAWARD (1996)
- V. nigrescens* Pers. – SEAWARD (1996), NEFFATI (2013)
- V. periphysata* Zahlbr. – SEAWARD (1996)
- V. veronensis* A.Massal. – SEAWARD (1996)
- Verruculopsis minuta* (A.Massal.) Krzew. – SEAWARD (1996, as *Verrucaria minuta* (A.Massal.) Zschacke nom. inval.).
- Waynea stoechadiana* (Abbassi & Cl.Roux) Cl.Roux & P.Clerc – KARMOUS et al. (1997)
- Xalocoa ocellata* (Fr.) Kraichak, Lücking & Lumbsch (syn. *Diploschistes ocellatus* (Vill.) Norman) – WERNER (1939, 1955b), SEAWARD (1996), NEFFATI (2013), Herb. AK (leg. Khadhri 2019), MENDILI et al. (2019, 2021b)
- Xanthocarpia interfulgens* (Nyl.) Frödén, Arup & Søchting (syn. *Caloplaca interfulgens* (Nyl.) J.Steiner) – SEAWARD (1996), NAVARRO-ROSINÉS & HLADUN (1996)
- X. marmorata* (Bagl.) Frödén, Arup & Søchting (syn. *Caloplaca marmorata* (Bagl.) Jatta) – SEAWARD (1996), NAVARRO-ROSINÉS & HLADUN (1996), NEFFATI (2013)
- Xanthoparmelia conspersa* (Ehrh. ex Ach.) Hale – NEFFATI (2013), GUTTOVÁ et al. (2015), EL MOKNI et al. (2015)
- X. cumberlandia* (Gyeln.) Hale – NEFFATI (2013)
- X. delisei* (Duby) O.Blanco et al. (syn. *Parmelia delisei* (Duby) Nyl.) – SEAWARD (1996), EL MOKNI et al. (2015)
- X. mougeotii* (Schaer. ex D.Dietr.) Hale – EL MOKNI et al. (2015)
- X. perrugata* (Nyl.) O.Blanco et al. (syn. *Neofuscelia perrugata* (Nyl.) Elix) – ELIX (2002)
- X. pulla* (Ach.) O.Blanco et al. (syn. *Parmelia pulla* Ach., *Neofuscelia pulla* (Ach.) Essl.) – SEAWARD (1996), KARMOUS et al. (1997), ELIX (2002), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2015), TABBABI & KARMOUS (2016)
- X. somloensis* (Gyeln.) Hale – KARMOUS et al. (1997), TABBABI (2009), TABBABI & KARMOUS (2016)

- X. stenophylla* (Ach.) Ahti & D.Hawksw. – GUTTOVÁ & EL MOKNI (2019), Herb. AK (leg. Khadhri 2019)
- X. tinctina* (Maheu & A.Gillet) Hale (syn. *Parmelia tinctina* Maheu & A.Gillet) – SEAWARD (1996)
- Xanthoria calcicola* Oxner (p.p. *X. aureola* (Ach.) Erichsen) – SEAWARD (1996), NEFFATI (2013), Herb. AK (leg. Khadhri 2019)
- X. ectaneoides* (Nyl.) Zahlbr. – ANDREANSZKY (1934), SEAWARD (1996), NEFFATI (2013 as *X. aureola*)
- X. elegans* (Link) Th.Fr. – SEAWARD (1996), EL MOKNI et al. (2015)
- X. parietina* (L.) Th. Fr. – Herb. P (leg. Kralik 1854), SEAWARD (1996), KARMOUS et al. (1997), ALONSO & EGEE (2003), ELLAFI (2005), TABBABI (2009), NEFFATI (2013), EL MOKNI et al. (2013a, 2015), TABBABI & KARMOUS (2016, 2018), BACHTOBI-BOUACHIR (2018), GUTTOVÁ & EL MOKNI (2019), MENDILI et al. (2021a, 2021b)
- X. resendei* Poelt & Tavares – SEAWARD (1996)
- X. steineri* I.M.Lamb – SEAWARD (1996)
- X. stiligera* Giralt, Nimis & Poelt – SEAWARD (1996)
- Zeroviella papillifera* (Vain.) S.Y.Kondr. & Hur (syn. *Xanthoria papillifera* (Vain.) Poelt) – PITARD (1909), SEAWARD (1996)
- Zwackhia viridis* (Ach.) Poetsch & Schied. (syn. *Opegrapha viridis* Pers.) – EL MOKNI et al. (2015)

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