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Nomenclatural corrections and notes on some taxa in the Teloschistaceae (lichenized ascomycetes)

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The nomenclature of *Gallowayella*, *Golubkovaea*, *Oxneria*, and some species of *Gyalolechia*, *Leproplaca*, and *Rusavskia* in the Teloschistaceae is corrected and commented. *Rusavskia ectaniza* is a new combination. Also the earlier invalidly published combinations *Gyalolechia bassiae*, *Leproplaca chrysodeta*, and *Rusavskia aspera* are validated.

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Introduction

The systematics in the Teloschistaceae has been heavily revised in recent years and is still unsettled. Kärnefelt (1989) accepted ten genera in his phylogenetic survey, a number that has increased to over 60 today. Some of the new genera presented by, for example, Arup *et al.* (2013), Fedorenko *et al.* (2009, 2012) and Kondratyuk *et al.* (2013, 2014a, b) are not generally accepted and there is an ongoing discussion about genus concept and phylogenetic methods in this family (Miądlikowska *et al.* 2014). The aim of this paper is to comment upon and correct the nomenclature of some taxa in the Teloschistaceae.

Taxonomy

Gallowayella S. Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A. Thell in Fedorenko, N. M., Stenroos, S., Thell, A., Kärnefelt, I., Elix, J. A., Hur, J.-S. & Kondratyuk, S. Y., *Bibl. Lichenol.* **108**: 52 (2012).

Type species: *Gallowayella gallowayi* (S. Y. Kondr. & Kärnefelt) S. Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A. Thell

Note. The genus name *Gallowayella* was claimed to be nomenclaturally superfluous by Arup *et al.* (2013: 58) since they thought that that genus included the type of an earlier and legitimate generic

name, *Oxneria* S. Y. Kondr. & Kärnefelt, which they stated to be *O. weberi*. However, the type of *Oxneria* is *O. alfredi*, not *O. weberi*, as correctly indicated by Kondratyuk & Kärnefelt (2003b). The misunderstanding by Arup *et al.* (2013) was caused by an unfortunate typographic error in Kondratyuk & Kärnefelt (2003a: 126), where *Xanthoria weberi* was erroneously introduced as “*Oxneria*” *weberi* (i.e. as if the monotypic genus *Oxneria* had been created). This technical error was clarified in Fedorenko *et al.* (2012: 60). Thus the genus *Gallowayella* was validly published and therefore the 16 new combinations of taxa within it. The erroneous original spellings of the epithets of the *Gallowayella* species, namely *G. tibellii* (‘tibelii’), *G. weberi* (‘weberii’) and *G. wetmorei* (‘wetmorii’), were also corrected by Fedorenko *et al.* (2012).

This nomenclatural correction will result in a major nomenclatural change, if the taxonomy of Arup *et al.* (2013) is followed. Four genera, i.e., *Gallowayella*, *Honeggeria*, *Jesmurraya* and *Oxneria*, were listed by the latter authors as synonyms under *Xanthomendoza*, wherein they combined most of the *Gallowayella* species. However, in our opinion, the advantage of using a narrower genus concept within this clade is that the separate genera form strongly supported subclades that correlate with morphological, anatomical and chemical characters. However, *Honeggeria* is positioned outside the *Xanthomendoza* s. l. clade (Kondratyuk *et al.* 2014b).

Golubkovaea S. Y. Kondr., Kärnefelt, Elix, A. Thell & J.-S. Hur
in Kondratyuk, S. Y., Kärnefelt, I., Thell, A., Elix, J. A., Kim, J., Jeong, M. H., Yu, N.-N., Kondratiuk, A. S. & Hur, J.-S., *Acta Bot. Hung.* **56**(1–2): 154 (2014), ‘*Golubkovia*’.

Type species: *Golubkovaea trachyphylla* (Tuck.) S. Y. Kondr., Kärnefelt, Elix, A. Thell, J. Kim, M.-H. Jeong, N.-N. Yu, A. S. Kondratiuk & J.-S. Hur

Basionym: *Placodium elegans* var. *trachyphyllum* Tuck., Syn. N. Amer. Lich. **1**: 170 (1882).

Note. *Golubkovaea* is the correct spelling of the genus name as required by Rec. 60B.1(a) in the Code (McNeill *et al.* 2012), not *Golubkovia*, as in the original description (Kondratyuk *et al.* 2014b), since the name is to honour the female lichenologist Nina S. Golubkova, not a person named Golubkov. This is a correctable error.

Gyalolechia bassiae (Ach.) Søchting, Frödén & Arup ex Ahti, **comb. nov.**

Basionym: *Lepraria bassiae* Ach., *Methodus*: 5 (1803).

Mycobank: MB811057

Type: Malabaria, Willdenow [India, Karnataka (?), Malabar, sent by C. L. Willdenow], (H-ACH 1752 – lectotype, designated here; H, isolectotype).

Gyalolechia bassiae (Ach.) Søchting, Frödén, & Arup, *Nordic J. Bot.* **31**: 70 (2013), not validly published (Art. 41.8).

Note. The name *Gyalolechia bassiae* was published invalidly by Arup *et al.* (2013), since they cited *Isidium bassiae* (Ach.) Ach. (Acharius 1810) as the basionym, although the correct basionym would have been *Lepraria bassiae* Ach. (Acharius 1803). Acharius (1810) did cite his earlier name, and therefore following the much overlooked Art. 41.8. Ex. 20 of the Code the reference to the later combination as the basionym did not validate the new combination. The type citation ‘holotype’ is changed to lectotype, because its duplicate exists in H.

Leproplaca chrysodeta* (Vain.) J. R. Laundon ex Ahti, **comb. nov.*

Basionym: *Placodium chrysodetum* Vain., Meddeland. Soc. Fauna Fl. Fenn. **47**: 18, 229 (1921) [validating descriptions in Finnish and German].

Mycobank: MB811058

Type: [Finland, Regio aboënsis, Salo] Finby (Särkisalo), Kaukasalo, 18 Aug. 1920, *E. A. Vainio s. n.* (TUR-V 7239 – lectotype, designated by Laundon 1974: 103).

Calloplisma chrysodetum (Vain.) Räsänen, Ann. Bot. Soc. Zool.-Bot. Fenn. Vanamo **18**(1): 41 (1943).

Caloplaca chrysodeta (Vain.) Dombr., Kosp. Fl. Lish. Murm. obl.: **99** (1970), not validly published (Art. 41.8).

Leproplaca chrysodeta (Vain.) J. R. Laundon, Lichenologist **6**: 103 (1974), not validly published (Art. 41.8).

Note. Most authors have regarded the citation '*Placodium chrysodetum* Vain.' in Räsänen (1931: 113) as the basionym and have used 'Vain. ex Räsänen' as the author citation. However, as correctly indicated by Alava (1988) in his book on Vainio's types, the name *Placodium chrysodetum* Vain. was published ten years earlier by Vainio (1921). Räsänen's citation 'Vain.' must be regarded as an indirect reference to that earlier paper. It means that under the requirement of Art. 41.8 with Ex. 19 of the Code neither Laundon (1974) nor Arup *et al.* (2013: 72) published the combination *Leproplaca chrysodeta* validly; nor was the combination *Caloplaca chrysodeta* by Dombrovskaya (1970). However, the combination *Calloplisma chrysodetum* (Vain.) Räsänen (Räsänen 1943: 41) was valid since it was made before 1953, at a time not covered by Art. 41.8! The errors are corrected here by the citation of the actual basionym. The overlooked German description by Vainio (1921: 229) reads: "Thallus sorediös, von gelber Farbe, die mit KOH ins Purpurne oder Blaurötliche übergeht".

***Oxneria* S. Y. Kondr. & Kärnefelt**

Note. The original spelling of the type species *O. alfredi* seems to be correct (see Rec. 60C.3 of the Code), although Fedorenko *et al.* (2012) and Arup *et al.* (2013), for instance, used '*alfredii*'. However, a few infraspecific taxa of *Oxneria* and *Rusavskia* recognized and described in Russian in Kondratyuk (2004) have not yet been validly published.

Rusavskia aspera* (Savicz) S. Y. Kondr. & Kärnefelt, **comb. nov.*

Basionym: *Placodium asperum* Savicz, Bull. Jardin Imp. Bot. Pierre le Grand **15**(2): 100 (1912).

Mycobank: MB811059

Type: Sibiria. Regio Jakutsk, flum. Dulgallach [Russia, Sakha Republic (Yakutia), upper course of river Dulgallakh, 5 verst above Toyon Tyryakh], 8 Sept. 1905 *P. V. Olenin* 55 (LE, not examined).

Note. Without full reference to the basionym, this previously published combination is invalid (Kondratyuk & Kärnefelt 2003b: 433).

Rusavskia ectaniza (Boistel) S. Y. Kondr. & Kärnefelt, **comb. nov.**

Basionym: *Xanthoria parietina* f. *ectaniza* Boistel, Nouv. Fl. Lich. **2**: 71 (1902), as ‘Nyl.’

Mycobank: MB811074

Type: Hungaria, regionis dictae Blumengarten in valle Felka’er Thal (Tátra) [Slovakia, High Tatra, Prešovský kraj, Velická dolina, Kvetnica], *H. Lojka*, Lich. Regni Hung. Exs. 3: no. 120 (= 186 ad int.) (H-NYL 30562, lectotype, designated here).

Lecanora elegans [unranked] *ectaniza* Nyl., Flora **66**: 105 (1883), nom. nud.

Lecanora elegans f. *musciicola* Lojka, Lichenoth. Hung. Exs. no. 120 (1882), nom. nud.

Lecanora elegans var. *ectaniza* Nyl. ex Hue, Rev. Bot. 5: 21 (1887), nom. nud.

Gasparrinia ectaniza (Boistel) Mereschk., Bull. Soc. Bot. France 67: 195 (1920), as ‘(Nyl.) Mer.’

Caloplaca elegans var. *musciicola* Suza, Lich. Bohemoslov. Exs. 4: no. 115 (1929), nom. nud.

Xanthoria elegans var. *ectaniza* (Boistel) Clauzade & Rondon, Rev. Fac. Ci. Univ. Lisboa, Sér. 2, C, Ci. Nat. **14**(1): 15 (1966).

Gasparrinia elegans var. *musciicola* Savicz, Novit. Syst. Pl. Non Vascul. 1967: 280 (= Lichenoth. Ross. 17: no. 168), not validly published (Art. 40.1; with description but two specimens cited, no type designated).

Xanthoria musciicola Vězda, Lich. Sel. Exs. 34: 7 (no. 850) (1969), not validly published [in spite of a reference to the description in Savicz (1967), because no type was selected among the three specimens cited].

Rusavskia musciicola S. Y. Kondr. & Kärnefelt, Ukr. Bot. J. **60**(4): 434 (2003), not validly published [with a reference to the description in Savicz (1967), but no type designated].

Note. This species has frequently been mentioned as *nomen nudum* or otherwise invalidly published under various names (not all listed). The combination *Rusavskia musciicola* by Kondratyuk & Kärnefelt (2003b) failed since they cited an invalidly published “basionym” by Savicz (1967). The earliest description detected is that by Boistel (1902). It should be noted that following Art. 46.4 in the Code, an author ascription should not be used in the validation of invalidly published names if the earlier author used the name in a different binary designation (as the epithet *musciicola* above was used in different genera by Vězda and Savicz). This rule is often not followed by lichenologists.

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