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The nomenclature of *Erysiphe clandestina* (≡ *Uncinula clandestina*) revisited

Uwe Braun & Andrew M. Minnis

Abstract: Braun, U. & Minnis, A.M. 2008: The nomenclature of *Erysiphe clandestina* (≡ *Uncinula clandestina*) revisited. Schlechtendalia **17**: 55–57.

The nomenclature of the Eurasian elm powdery mildew, *Erysiphe clandestina* (≡ *Uncinula clandestina*), is revised. This name is not available for this fungus within the genus *Erysiphe* since E.M. Fries's work sanctioned the later homonym *E. clandestina* (based on *Alphitomorpha clandestina*, currently *Podosphaera clandestina*). Following the current taxonomy of the Erysiphales based on phylogenetic examinations and morphological reassessments, a valid name for this species in *Erysiphe* is necessary. Therefore, the new name *Erysiphe bivonae* is proposed.

Zusammenfassung: Braun, U. & Minnis, A.M. 2008: Revision der Nomenklatur von *Erysiphe clandestina* (≡ *Uncinula clandestina*). Schlechtendalia **17**: 55–57.

Die Nomenklatur des eurasischen Ulmenmehltaus, *Erysiphe clandestina* (≡ *Uncinula clandestina*), wird revidiert. Dieser Name ist nicht verfügbar für diesen Pilz innerhalb der Gattung *Erysiphe*, da E.M. Fries das spätere Homonym *E. clandestina* (basierend auf *Alphitomorpha clandestina*, heute *Podosphaera clandestina*) sanktioniert hat. Der gegenwärtigen, durch phylogenetische Untersuchungen und Neubewertungen morphologischer Merkmale gestützten Taxonomie der Erysiphales folgend ist jedoch ein gültiger Name für diese Art in *Erysiphe* notwendig. Deshalb wird der neue Name *Erysiphe bivonae* vorgeschlagen.

Key words: elm powdery mildew, *Erysiphe bivonae* nom. nov., nomenclatural revision.

Bivona-Bernardi (1815) introduced *Erysiphe clandestina* Biv. for the European elm powdery mildew. Léveillé (1851) reallocated this species to *Uncinula* Lév., but the name proposed, *Uncinula bivonae* Lév., was superfluous (illegitimate) since *E. clandestina* was cited as a synonym. The valid combination of this species in *Uncinula* was later introduced by Schröter (1893). Based on phylogenetic examinations using molecular sequence analyses and morphological reassessments, Braun & Takamatsu (2000) reduced *Microsphaera* Lév. and *Uncinula* to synonymy with *Erysiphe* DC. (emend. U. Braun & S. Takam.) and published numerous new combinations and some nomenclatural resurrections of old *Erysiphe* names including *E. clandestina*. Unfortunately, it was overlooked that *Erysiphe clandestina* (Wallr. : Fr.) Link [≡ *Alphitomorpha clandestina* Wallr. : Fr., now *Podosphaera clandestina* (Wallr. : Fr.) Lév.], included in Fries's work (1829), is a sanctioned name (ICBN, Art. 13.1; McNeill et al. 2006). *Erysiphe clandestina* Biv. is an earlier homonym of the sanc-

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tioned *E. clandestina* (Wallr. : Fr.) Link and is not illegitimate (ICBN, Art. 15.2), i.e. it was correctly used as the basionym for *Uncinula clandestina*. On the other hand, this name is not available for use in *Erysiphe* (ICBN, Art. 15.2), and a replacement name is necessary in that genus. *Uncinula althaeae* Zaprom. was cited in BRAUN (1987) as a possible synonym with a question mark. This name, however, is very doubtful and not applicable. Type material is not available and the identity of the host species is quite unclear. It was cited by BRAUN (1987) as a potential synonym due to its similar morphological description. The only other available name, *U. bivonae*, is illegitimate (a superfluous name) because LÉVEILLÉ (1851) cited *E. clandestina* as a synonym when the latter name should have been adopted in *Uncinula* according to the current ICBN. An illegitimate name cannot become legitimate later unless conserved or sanctioned (ICBN, Art. 6.4). Thus, *U. bivonae* cannot be transferred to *Erysiphe* as a new combination. However, if no other epithet is available, the epithet of an illegitimate name may be used as a new name ascribed to the introducing authors (ICBN, Art. 58). Thus, the following changes are proposed:

Erysiphe bivonae U. Braun & Minnis, **nom. nov.**

MycoBank, MB 511662.

≡ *Erysiphe clandestina* Biv., Stirp. rar. Sicilia 3: 20, 1815, non *E. clandestina* (Wallr. : Fr.) Link 1824 (sanctioned name).

≡ *Uncinula bivonae* Lév., Ann. Sci. Nat., Bot., 3 Sér., 15: 151, 1851, nom. illeg.

Erysiphe bivonae var. ***ulmi-foliaceae*** (Dzhaf.) U. Braun & Minnis, **comb. nov.**

MycoBank, MB 511663.

≡ *Uncinula clandestina* f. *ulmi-foliaceae* Dzhaf., Bot. Mat. Otd. Spor. Rast., Bot. Inst. AN SSSR, 12: 266, 1959.

≡ *Uncinula clandestina* var. *ulmi-foliaceae* (Dzhaf.) R.Y. Zheng & G.Q. Chen, Acta Microbiol. Sinica 18(1): 20, 1978.

≡ *Erysiphe clandestina* var. *ulmi-foliaceae* (Dzhaf.) U. Braun & S. Takam., Schlechtendalia 4: 18, 2000.

Acknowledgement

We are grateful to S.R. Pennycook, Auckland, New Zealand, for reviewing the manuscript of this paper.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: Schlechtendalia

Jahr/Year: 2008

Band/Volume: 17

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Artikel/Article: The nomenclature of Erysiphe clandestina (? Uncinula clandestina) revisited 55-57