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Validation of two species of the genus *Erysiphe* (Erysiphales)

Uwe Braun, Vasyl Heluta & Susumu Takamatsu

Abstract: Braun, U., Heluta, V. & Takamatsu, S. 2007: Validation of two species of the genus *Erysiphe* (Erysiphales). Schlechtendalia **16**: 99–100.

Two species of the genus *Erysiphe*, *E. arcuata* and *E. carpini-laxiflorae*, are validated.

Zusammenfassung: Braun, U., Heluta, V. & Takamatsu, S. 2007: Validation von zwei Arten der Gattung *Erysiphe* (Erysiphales). Schlechtendalia **16**: 99–100.

Zwei Arten der Gattung *Erysiphe*, *E. arcuata* and *E. carpini-laxiflorae,* werden validiert.

Key words: Powdery mildew fungi, *Carpinus*, taxonomy, nomenlacture.

Braun et al. (2006) treated the phylogeny and taxonomy of powdery mildew fungi of *Erysiphe* sect. *Uncinula* (Lév.) U. Braun & Shishkoff on *Carpinus* species. Two new species, *Erysiphe arcuata* U. Braun, Heluta & S. Takam. and *E. carpini-laxiflorae* U. Braun, Heluta & S. Takam., were introduced. Due to unknown reasons, the originally present Latin diagnoses of the two new species disappeared during the course of the editorial or technical processes and were replaced by English diagnoses, i.e. they are lacking in the final printed version, which renders the two species invalid (ICBN, Art. 36.1). Therefore, the following validations are necessary.

Erysiphe arcuata U. Braun, Heluta & S. Takam., **sp. nov.** (MB 500702)

Differt a E. carpinicola conidiis majoribus, 25–45 × 10–19 µm, chasmotheciis cum appendicibus longioribus, ad 360 µm, minoribus, (6–)10–20(–25), apice saepe leniter inflato, ascis 2–6-sporis et ascosporis majoribus, 15–25(–28) × 10–17(–19) µm.

Holotype: Ukraine, Kiev, 2 Tereshchenkivska Street, close to the Institute of Botany, on *Carpinus betulus* (Betulaceae), 26 Oct. 2005, V. Heluta (KW 30172). Isotype: MUMH 3812. List of paratypes, see Braun et al. (2006: 151).

Detailed description, discussion and illustrations: Braun et al. (2006: 150–151 and Figs 3a, b and 5).

Erysiphe carpini-laxiflorae U. Braun, Heluta & S. Takam., **sp. nov.** (MB 500703)

Differt a E. carpinicola conidiophoris cum cellulis basalibus curvatis et chasmotheciis cum appendicibus longioribus, ad 300 µm, apice dense circinato-subhelicoide, leniter inflato.

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Holotype: Japan, Mie, Gozaisho Mt., on *Carpinus laxiflora* (Betulaceae), 21 Oct. 2004, S. Takamatsu (MUMH 50). Isotypes: HAL 1904 F, KW 30177. List of paratypes, see Braun et al. (2006: 149).

Detailed description, discussion and illustrations: BRAUN et al. (2006: 149–150 and Figs 3a, b and 5).

Literature

BRAUN, U., TAKAMATSU, S., HELUTA, V., LIMKAISANG, S., DIVARANGKOON, R., COOK, R. & BOYLE, H. (2006): Phylogeny and taxonomy of powdery mildew fungi of *Erysiphe* sect. *Uncinula* on *Carpinus* species. Mycological Progress **5**: 139–153.

Addresses of the authors

U. Braun, Martin-Luther-Universität, Institut für Biologie, Geobotanik und Botanischer Garten, Herbarium, Neuwerk 21, D-06099 Halle (Saale), Germany.
(E-mail: uwe.braun@botanik.uni-halle.de).

V. Heluta, Institute of Botany of the National Academy of Sciences of Ukraine, 2 Tereshchenkivska Street, Kiev 01601, Ukraine.
(E-mail: mycol@botany.kiev.ua)

S. Takamatsu, Laboratory of Plant Pathology, Faculty of Bioresources, Mie University, 1577 Kurima-Machiya, Tsu 514-8507, Japan.
(E-mail: takamatu@bio.mie-u.ac.jp)

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