

Validation of the description of some species of *Entomophthora* (Zygomycetes, Entomophthorales)

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Keller, S. (2004). Validation of the description of some species of *Entomophthora* (Zygomycetes, Entomophthorales). – Sydowia 56 (2): 21–22.

Some species of Entomophthorales previously described as new were considered as *nomina invalida* because of missing data in the Latin diagnosis. Consequently, type designations are being provided to validate five species of *Entomophthora*.

Keywords: *Entomophthora byfordii*, *E. ferdinandii*, *E. simulii*, *E. leyteensis*, *E. rivularis*, validation

Some species of the genus *Entomophthora* described as new (Keller, 2002; Villacarlos & al. 2003) are considered *nomina invalida* because the names were not correctly typified in the original publications (Anonymus, 2004). In the following, type designations, which are in accordance with the International Code of Botanical Nomenclature (Greuter & al., 2000) are being provided to validate *Entomophthora byfordii*, *E. ferdinandii*, *E. simulii*, *E. leyteensis* and *E. rivularis*.

***Entomophthora byfordii* S. Keller sp. nov.** – Sydowia 54 (2002): 165.

Rhizoidea mononemata e partibus buccelibus emergentia. Conidiophora simplicia. Conidia primaria (13–)15–16(–18) × (11)12–14(–16) µm, campanulata, 5–9 nucleos 3–4.5 µm diametro continentia. Conidia secundaria habitu primariis similia. Cystidia et sporae perdurantes absunt.

In *Bradysia* sp. (hospite typico) (Diptera: Sciaridae).

Holotypus. – ZT, Helvetia (Conthey, Valais), coll. et leg. S. Keller, 28. 10. 1999, no. 87–8, paratypi no. 87–7, 87–8, 87–23, 87–27. Paratypi K et BPI.

***Entomophthora ferdinandii* S. Keller sp. nov.** – Sydowia 54 (2002): 172.

Corpora hyphalia (18–)23–26(–31) × (17–)21–23(–28) µm, subsphaerica vel ellipsoidea. Conidiophora simplicia. Conidia primaria (21–)23–27(–30) × (16)18–23(–27) µm, campanulata, (6–)10–11(–16) nucleos 3.5–5 µm diametro continentia. Conidia secundaria habitu primariis similia. Rhizoidea, cystidia et sporae perdurantes absunt.

In *Delia kullense* (hospite typico) (Diptera: Anthomyiidae) et *Drosophila* sp. (Diptera: Drosophilidae).

Holotypus. – ZT, Helvetia (Neunkirch SH), coll. et leg. S. Keller, 22. 6. 1983, no. 62–31, paratypi nos. 62–1, 62–7, 62–30. Paratypi K et BPI.

***Entomophthora simulii* S. Keller sp. nov.** – Sydowia 54 (2002): 184.

Rhizoidea mononemata e partibus buccalibus emergentia. Corpora hyphalia (27–)36(–45) × (18–)25(–30) µm, subspherica vel irregularis. Conidiophora simplicia. Conidia primaria (21–)24–26(–30) × (16–)18–21(–24) µm, campanulata, acumina apicale distincto, (10–)14–15(–20) nucleos 3–4.5 µm diametro continentia. Conidia secundaria habitu primariis similiaria. Cystidia absunt.

In *Simulium* (*Wilhelmia*) *lineatum* Mg. (hospite typico) (Diptera: Simuliidae).

Holotypus. – ZT, Helvetia (Rüdlingen, Canton Schaffhausen), coll. et leg. S. Keller, 3. 8. 1999, no. 86–36, paratypi nos. 86–9, 86–16, 86–29, 86–30,. Paratypi K et BPI.

***Entomophthora leyteensis* Villacarlos & Keller sp. nov.** in Villacarlos & al., J. Invertebr. Pathol. 83 (2003): 18.

Holotypus. – ZT, Inopacan, Leyte, Philippinae, coll. et leg. L. T. Villacarlos, 5. 7. 1998, no. 34–10. Paratypi K.

***Entomophthora rivularis* Keller, Niell & Santamaria** (Sydowia, 54, 2002: 181).

The holotype is based on a single infected insect which is distributed on three slides numbered BCB-Ent 90, part 1 of 3; 90, part 2 of 3 and 90, part 3 of 3.

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