

Acidotolerant genus *Fodinomyces* (Ascomycota: *Capnodiales*) is a synonym of *Acidiella*

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A new combination, *Acidiella uranophila* (X. Vázquez-Campos) M. Kolařík, Hujsová & X. Vázquez-Campos is provided for *Fodinomyces uranophilus* X. Vázquez-Campos based on similarity in phenotype and genotype.

Key words: soil fungi, Dothideomycetes, taxonomy, acid soils, ITS rDNA.

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Kolařík M., Hujsová M., Vázquez-Campos X. (2015): Acidotolerantní rod *Fodinomyces* (Ascomycota: *Capnodiales*) je synonymem rodu *Acidiella*. – Czech Mycol. 67(1): 37–38.

Nová kombinace, *Acidiella uranophila* (X. Vázquez-Campos) M. Kolařík, Hujsová & X. Vázquez-Campos, je navržena pro *Fodinomyces uranophilus* X. Vázquez-Campos na základě podobnosti fenotypu i genotypu.

SHORT TAXONOMIC REPORT

Acidiella uranophila (X. Vázquez-Campos) M. Kolařík, Hujsová & X. Vázquez-Campos, **comb. nov.**
(MycBank MB 811258)

Basionym: *Fodinomyces uranophilus* X. Vázquez-Campos, Mycologia 106: 1078 (2014).

Highly acidic soils represent a specific habitat harbouring acidophilic or acidotolerant fungi such as *Acidomyces*, *Acidothrix* and *Acidea* (Hujsová et al. 2013, Hujsová et al. 2014). Recently, the dematiaceous hyphomycete *Fodinomyces*

uranophilus X. Vázquez-Campos (type species of *Fodinomyces* X. Vázquez-Campos) was isolated from acid uranium mine water (raffinate) in Australia (Vázquez-Campos et al. 2014) and *Acidiella bohémica* Hujšlová & M. Kolařík (type species of *Acidiella* Hujšlová & M. Kolařík) from acid soil in a kaolin quarry in the Czech Republic (Hujšlová et al. 2013). Type strains (*F. uranophilus* CBS 136962^T, *A. bohémica* CBS 132721^T) have 99% (536/538 bp) similarity in ITS rDNA sequences (JQ904602 for *F. uranophilus*, JQ172752.2 for *A. bohémica*), and 99% (745/746 bp) similarity in LSU rDNA (KF857170 for *F. uranophilus*, JQ172752.2 for *A. bohémica*). Optimum growth of both species is at pH 5. They are not able to grow at pH 1. Colony diameter on Potato dextrose agar (PDA) (24–25 °C, 14 days) is 14–15 mm in *F. uranophilus* and 16 mm in *A. bohémica*. Colonies of both species on PDA were compact, flat, centrally heaped or cerebriform showing a tendency to crack, surface slightly velvety, black. Both species produced arthroconidia and chlamydospores. Arthroconidia were (4.5)5–7 × 2–2.5(3) µm in *F. uranophilus* and 8.0–16.0 × 1.7–3.0 µm in *A. bohémica*. Chlamydospores were (4.5)10.5–11(13.5) in *F. uranophilus* (only one dimension is given for chlamydospores in the original description) and 4.8–18.0 × 1.8–4.8 µm in *A. bohémica*. The only remarkable difference in phenotype is the presence of blastoconidia in *Fodinomyces*, which are absent in *Acidiella*. In conclusion, the high similarity in ITS-LSU rDNA sequences, ecology, physiology and morphology proves that these species are sisters to be placed in a single genus, *Acidiella*, of which *Fodinomyces* represents a later synonym.

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