



**LEWINSKYA SHAWII (WILSON) F.LARA, GARILLETI & GOFFINET,
A NEW MEMBER OF THE HUNGARIAN BRYOPHYTE FLORA**
A magyar mohaflóra új tagja – *Lewinskya shawii* (*Orthotrichum shawii*)

Peter Erzberger^{1*} & Péter Szűcs²

¹Independent researcher, Berlin, Germany; ²Institute of Biology, Department of Botany and Plant Physiology, Eszterházy Károly Catholic University, Eger, Hungary;
*E-mail: erzberger.peter@gmail.com

During a joint excursion in the foothills of Mátra Mts, a species of the Orthotrichaceae family new to the bryophyte flora of Hungary was discovered: *Lewinskya shawii* (Wilson) F.Lara, Garilleti & Goffinet, formerly known as *Orthotrichum shawii* Wilson.

Heves County, [8185.3] (Central European Mapping Scheme), southern foothills of Mátra Mountains, beside the road leading from Gyöngyös to Gyöngyösoroszi, ca 1 km south of Gyöngyösoroszi, on the bark of *Acer pseudoplatanus* L. together with *Lewinskya affinis* (Schrad. ex Brid.) F.Lara, Garilleti & Goffinet, *Syntrichia papillosa* (Wilson ex Spruce) Spruce, *Leskea polycarpa* Hedw., ca. 210 m a.s.l., 47°48'46.6"N, 19°54'16.0"E, 01 July 2023, leg. P. Szűcs & P. Erzberger, det. P. Erzberger (B-Erzberger 28840).

Lewinskya shawii was described as *Orthotrichum shawii* Wilson in 1864 from Scotland. From the original site and in fact the British Isles the species must be considered to be extinct, because it has never been re-found in spite of repeated efforts to do so. The species has a complicated taxonomic and nomenclatural history: it has been treated as a hybrid between *L. rupestris* (Schleich. ex Schwägr.) F.Lara, Garilleti & Goffinet and *L. striata* (Hedw.) F.Lara, Garilleti & Goffinet, as a subspecies of *L. rupestris* or of *L. striata* or as synonymous with the latter.

In 2000, Mazimpaka, Lara, Garilleti *et al.* reinstated *O. shawii* as a species in its own right, based on recent collections in Spain and Sicily. At first glance, *L. shawii* might be confused with *L. striata* due to the smooth capsule wall of both species. The main difference is the complete lack of an endostome in *L. shawii*. However, careful examination of capsules with their lid still on is needed to verify this character, since in deoperculate capsules of *L. striata*, the endostome is often lost to a variable degree. Stomata are superficial (phaneropore) in *L. shawii*, *L. striata* and in *L. rupestris* as well, therefore these species were transferred to the newly created genus *Lewinskya* when the large traditional genus *Orthotrichum* was split up. *Lewinskya shawii* has a disjunct distribution, occurring also in California apart from Europe. It is locally frequent in South Europe, rare but possibly overlooked in Central and Western Europe.

According to the most recent checklist of Hungarian bryophytes, *L. shawii* does not occur in Hungary, although there were old reports, but the corresponding specimens could not be verified. With the addition of *L. shawii*, the Hungarian list of bryophytes now counts 699 taxa.