

Supplementary Data S2 – Final alignment of the *trnK-matK* region of the investigated species of *Pinguicula* and GenBank records. ANZ – *P. vulgaris* subsp. *anzalonei*, BIC – *P. vulgaris* var. *bicolor*, BOH – *P. vulgaris* subsp. *bohemica*, DOS – *P. vulgaris* nothosubsp. *dostalii*, ERN – *P. vulgaris* subsp. *ernica*, POL – *P. “polonica”*, VES – *P. vulgaris* subsp. *vestina*, VUL – *P. vulgaris* subsp. *vulgaris*. For population abbreviation see Table 2. GenBank records LC348435 and AF531806 refer to Shimai et al. (2021); - – refers to insertion/deletion, or in the case of GenBank records LC348435 and AF531806 to missing characters. Suggested incongruencies are highlighted in “yellow”.

Shimai H., Setoguchi H., Roberts D. L. & Sun M. (2021) Biogeographical patterns and speciation of the genus *Pinguicula* (Lentibulariaceae) inferred by phylogenetic analyses. – PLoS ONE 16: e0252581.

Based on the alignment of sequences generated for locus *trnK-matK* within our study and those from an outstanding biogeographical study of the whole genus *Pinguicula* by Shimai et al. (2021), we observed several discrepancies (highlighted in yellow in alignment below). We did not observe the four single nucleotide polymorphic sites (SNPs; positions: 57, 95, 138, 456) present in LC348435 (*P. bohemica*) which differentiate this taxon from *P. vulgaris* (AF531806) within our dataset. We sequenced six samples of *P. vulgaris* subsp. *bohemica* from natural sites, thus we are convinced our observations are more realistic. The observed discrepancies may stem from sequence processing, e.g., low-quality parts, hardly readable parts with overlapping peaks.

[illegible]

[illegible]

[illegible]

[illegible]

1010 1020 1030 1040 1050 1060 1070 1080
 IC3584835 *Pinguicula bohemica*
 AF531806 *Pinguicula vulgaris*
 AN2_1
 AN2_2
 VES_1
 VES_2
 BIC_C2_h
 BIC_C2_c
 BIC_SK_1_a
 BIC_SK_1_b
 BIC_SK_2_a
 BIC_SK_2_c
 BIC_SK_3_a
 BIC_SK_3_c
 DOS_1
 DOS_2
 POL_1
 POL_3
 POL_5
 ERN_2
 ERN_692-4
 BOH_BR_1
 BOH_BR_b
 BOH_BR_c
 BOH_BR_e
 BOH_SH_a
 BOH_SH_d
 VUL_NOR_2_a
 VUL_NOR_2_d
 VUL_SK_1253_WF
 VUL_IR_1338-2
 VUL_DE_1696-2
 VUL_CH_667-3
 VUL_UK_686-9
 VUL_FR_706-1
 VUL_FR_709-8
 VUL_FR_713-2
 VUL_CZ_1_b
 VUL_CZ_1_c
 VUL_CZ_2_a
 VUL_CZ_2_b
 VUL_NOR_1_a
 VUL_NOR_1_d
 VUL_SK_a
 VUL_SK_c
 VUL_SWE_1_a
 VUL_SWE_1_c
 VUL_SWE_2_a
 VUL_SWE_2_d
 VUL_SWE_3_c
 VUL_SWE_3_d
 VUL_PL_ZAK-2
 VUL_PL_ZAK-6