

**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.









810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000  
LC348435 Pinguicula bohemica  
AF531806 Pinguicula vulgaris  
ANZ\_1  
ANZ\_2  
VES\_1  
VES\_2  
BIC\_C2\_h  
BIC\_C2\_b  
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\_SH\_1  
BOH\_SH\_a  
BOH\_SH\_b  
BOH\_SH\_c  
BOH\_SH\_d  
VUL\_NOR\_2\_a  
VUL\_NOR\_2\_d  
VUL\_IR\_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\_C2\_1\_b  
VUL\_C2\_1\_c  
VUL\_C2\_2\_a  
VUL\_C2\_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

