

**Multivariate morphometric analysis of the *Stipa turkestanica* group (Poaceae: *Stipa* sect. *Stipa*)**

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**Online Resource 3** Results of post-hoc tests: the Tukey's HSD test for each character. "+" – statistically significant,  $p < 0.05$ ; "ns" – not significant. Abbreviations: ka – *S. macroglossa* subsp. *kazachstanica*, ki – *S. kirghisorum*, ma – *S. macroglossa* subsp. *macroglossa*, tr – *S. turkestanica* subsp. *trichoides*, tu – *S. turkestanica* subsp. *turkestanica*

| Character                                    | ma-ka | ma-tr | ma-tu | ma-ki | ka-tr | ka-tu | ka-ki | tr-tu | tr-ki | tu-ki |
|----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| AC                                           | ns    | +     | +     | +     | +     | +     | ns    | ns    | +     | +     |
| AL                                           | +     | ns    | +     | +     | +     | +     | +     | +     | +     | +     |
| AwnL                                         | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |
| CalL                                         | +     | ns    | +     | +     | +     | +     | ns    | +     | +     | +     |
| CdH                                          | +     | +     | +     | +     | +     | +     | +     | ns    | +     | +     |
| Col <sub>1</sub> L                           | +     | +     | ns    | +     | +     | +     | +     | +     | +     | +     |
| CRL                                          | ns    | +     | +     | +     | +     | +     | +     | ns    | +     | +     |
| CRW                                          | +     | +     | +     | +     | +     | +     | ns    | ns    | +     | +     |
| CvH                                          | +     | +     | +     | +     | +     | +     | +     | ns    | +     | +     |
| DVL                                          | +     | +     | +     | +     | ns    | +     | +     | ns    | +     | ns    |
| DDL                                          | +     | +     | +     | +     | ns    | +     | +     | +     | +     | +     |
| LG                                           | +     | +     | +     | +     | +     | +     | ns    | ns    | +     | +     |
| LHB                                          | +     | +     | ns    | +     | +     | +     | +     | +     | +     | +     |
| LHD                                          | +     | ns    | ns    | ns    | +     | +     | ns    | ns    | +     | ns    |
| LigC                                         | ns    | +     | +     | +     | +     | +     | ns    | +     | +     | +     |
| LigV                                         | ns    | +     | ns    | +     | +     | +     | +     | +     | +     | +     |
| SHL                                          | +     | ns    | +     | +     | +     | +     | +     | +     | ns    | +     |
| SL                                           | +     | +     | +     | +     | +     | +     | ns    | +     | +     | +     |
| SL/CL                                        | +     | +     | +     | +     | +     | +     | +     | +     | +     | ns    |
| UG                                           | +     | +     | +     | +     | +     | +     | ns    | ns    | +     | +     |
| WVS                                          | +     | +     | ns    | +     | +     | +     | ns    | +     | +     | +     |
| Number of characters differing pairs of taxa | 17    | 17    | 16    | 20    | 19    | 21    | 12    | 12    | 20    | 18    |

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