Supplementary Table S2. Results of univariate analysis tests. A. Raw data set. B. Individual means data set (population multivariate outliers removed, individual replicates averaged). C. Individual means data set (Data set 1 only): Results for tests between the natural and domesticated population categories (factor dune – nondune). N = Shapiro-Wilk test of normal distribution over entire data set; Bartlett = Bartlett parametric test of homogeneity of variances of populations; Fligner = Fligner-Killeen non-parametric test for equality of variances of populations; Anova = Parametric analysis of variance test for differences in means of populations; Kruskal = Kruskal-Wallis non-parametric test for differences in central values of populations; F = F parametric test to compare variances of two categories; t = Welch two sample parametric t-test for differences in means of two categories; Wilcoxon = Wilcoxon non-parametric test for differences in central values of two categories. All tests carried out in R version 3.5.0 (R Core Team 2018).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A. Raw data set; tests between populations | | | | | |
| Variable-data set | N | Bartlett | Fligner | Anova | Kruskal |
| LLAMLEN-1 | no | no | no | yes | yes |
| LLAMLEN-2 | no | no | no | yes | yes |
| LLAMWID-1 | no | yes | yes | yes | yes |
| LLAMWID-2 | no | no | no | yes | yes |
| LLAMTHIK-1 | no | no | no | yes | yes |
| NLATV-1 | no | no | yes | yes | yes |
| NLATV-2 | no | no | no | yes | yes |
| PETLEN-1 | no | no | yes | yes | yes |
| PETLEN-2 | no | no | no | yes | yes |
| PETWID-1 | no | no | no | yes | yes |
| PETWID-2 | no | no | no | yes | yes |
| INFLEN-1 | yes | no | no | yes | yes |
| INFLEN-2 | yes | no | no | yes | yes |
| INFPEDLEN-1 | no | no | no | yes | yes |
| INFPEDLEN-2 | no | no | no | yes | yes |
| RACLEN-2 | no | no | no | yes | yes |
| RACINTNUM-1 | no | yes | yes | no | yes |
| NRAMIF-2 | no | no | no | yes | yes |
| PEDICLEN-1 | no | no | no | yes | yes |
| PEDICLEN-2 | no | no | no | yes | yes |
| CALXLEN-1 | no | no | no | yes | yes |
| CALXLEN-2 | no | no | no | yes | yes |
| COROLEN-1 | no | no | no | yes | yes |
| COROLEN-2 | no | no | no | yes | yes |
| STAMNUMB-1 | no | no | no | yes | yes |
| STAMNUMB-2 | no | no | no | yes | yes |
| STAMSHORLEN-1 | no | no | no | yes | yes |
| STAMSHORLEN-2 | no | no | no | yes | yes |
| STAMLONLEN-1 | no | no | no | yes | yes |
| STAMLONLEN-2 | no | no | no | yes | yes |
| DRUPLEN-1 | no | no | no | yes | yes |
| DRUPLEN-2 | no | no | no | yes | yes |
| DRUPDIAM-1 | no | no | no | yes | yes |
| DRUPDIAM-2 | no | no | no | yes | yes |
| HYPLEN-1 | no | no | no | yes | yes |
| HYPLEN-2 | no | no | no | yes | yes |
| HYPDIAM-1 | no | no | no | yes | yes |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| B. Individual means data set; tests between populations | | | | | |
| Variable-data set | N | Bartlett | Fligner | Anova | Kruskal |
| LLAMLEN-1 | no (but near) | no (but near) | yes | yes | yes |
| LLAMLEN-2 | yes | no | yes | yes | yes |
| LLAMWID-1 | yes | no | yes | yes | yes |
| LLAMWID-2 | yes | yes | yes | yes | yes |
| LLAMTHIK-1 | no | no | yes | yes | yes |
| NLATV-1 | no | no | yes | yes | yes |
| NLATV-2 | no | yes | yes | yes | yes |
| PETLEN-1 | no | no | yes | yes | yes |
| PETLEN-2 | no | yes | yes | no | no |
| PETWID-1 | no | no | yes | yes | yes |
| PETWID-2 | no | no | yes | yes | yes |
| INFLEN-1 | no | no | yes | yes | yes |
| INFLEN-2 | yes | yes | yes | yes | yes |
| INFPEDLEN-1 | no | no | no | yes | yes |
| INFPEDLEN-2 | no | no | no | no | no |
| RACLEN-2 | no | yes | yes | yes | yes |
| RACINTNUM-1 | yes | yes | yes | no | no |
| NRAMIF-2 | no | no | no | yes | yes |
| PEDICLEN-2 | no | yes | yes | yes | yes |
| CALXLEN-1 | no | no | no | yes | yes |
| CALXLEN-2 | no | yes | yes | yes (borderline) | no |
| COROLEN-1 | no | no | no | yes | yes |
| COROLEN-2 | no | yes | yes | yes | yes |
| STAMNUMB-1 | no | no | yes | yes | yes |
| STAMNUMB-2 | no | yes | yes | yes | yes |
| STAMSHORLEN-2 | no | no | no | yes | yes |
| STAMLONLEN-2 | no | no | yes | yes | yes |
| DRUPLEN-1 | no | no | no | yes | yes |
| DRUPLEN-2 | no | no | no | yes | yes |
| DRUPDIAM-1 | no | no | no | yes | yes |
| DRUPDIAM-2 | no | no | no | yes | yes |
| HYPLEN-1 | no | no | no | yes | yes |
| HYPDIAM-1 | yes | no | no | yes | yes |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| C. Individual means (data set 1); tests between dune and nondune categories of the ecological model | | | | | |
| Variable-data set | N | F | Fligner | t | Wilcoxon |
| LLAMLEN-J | no | no | no | - | yes |
| LLAMWID-J | yes | yes | - | yes | - |
| LLAMTHIK-J | no | no | no | no | no |
| NLATV-J | yes | yes | yes | yes | yes |
| PETLEN-J | no | no | yes | yes | yes |
| PETWID-J | no | almost | yes | no | yes |
| INFLEN-J | yes | almost | yes | yes | yes |
| RACINTNUM-J | yes | yes | yes | no | no |
| DRUPLEN-J | no | no | no | yes | yes |
| DRUPDIAM-J | no | no | no | yes | yes |
| HYPLEN-J | no | no | yes | yes | yes |
| HYPDIAM-J | no | no | yes | no | yes |