**Table S1.** Loadings matrix of wing traits calculated by MDS. Metacarpals and phalanges are scaled to size (*i.e.*, wing structure /FL ratio). Acronyms of wing traits are found in figure 1

|  |  |  |
| --- | --- | --- |
| Wing trait | MDS1 | MDS2 |
| P2.1 | -0.06410555 | 0.06341994 |
| P3.1 | -0.06455927 | 0.03038426 |
| P3.2 | -0.01764726 | 0.09927796 |
| P3.3 | 0.09683515 | 0.02081298 |
| P3.4 | 0.21352353 | -0.11913816 |
| P4.1 | -0.04500416 | 0.01787048 |
| P4.2 | 0.00049 | 0.07648996 |
| P4.3 | 0.13479024 | -0.08246176 |
| P5.1 | 0.02375557 | -0.05771002 |
| P5.2 | -0.03329118 | -0.03506797 |
| P5.3 | 0.13915241 | -0.11366729 |