## S.2.4 Phylogenetic signals

Table S.2.4: Overview of the phylogenetic signals (Pagel’s Lambda) per taxonomic order and trait.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Order** | **Size** | **Dispersal** | **Fecundity** | **Development time** | **Voltinism** | **Thermal mean** | **Thermal range** |
|  |  |  |  |  |  |  |  |
| Araneae | 0.786 | 0.264 | 0.035 | 0.809 | 0.890 | 0.182 | 0.155 |
| Coleoptera | 0.982 | 0.978 | 0.997 | 0.996 | 0.580 | 0.209 | 0.498 |
| Hemiptera | 0.989 | 0.973 | < 0.001 | < 0.001 | 0.589 | 0.922 | 0.792 |
| Hymenoptera | 0.967 | < 0.001 | 0.193 | 1.001 | 0.388 | 0.319 | 0.820 |
| Isopoda | 0.986 | < 0.001 | 0.155 | N/A | N/A | < 0.001 | < 0.001 |
| Lepidoptera | 0.946 | 0.927 | 0.996 | 0.762 | 0.680 | 0.220 | 0.204 |
| Odonata | 0.970 | 0.603 | < 0.001 | 1.013 | 0.976 | < 0.001 | < 0.001 |
| Orthoptera | < 0.001 | 0.200 | 0.332 | N/A | < 0.001 | < 0.001 | < 0.001 |