**S4 Table**

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| **Character number** | **Character state** |
| **Non-Asiracinae Delphacidae** |
| 1 | Snapping organ sexually dimorphic |
| 2 | Ventrocaudal enlargement of Idlm1-bearing apodemes and migration to median region of metapostnotum |
| 3 | Enlargement of dorsoventral musculature and IIvlm2 |
| 4 | Fusion and modification of Y-lobe |
| 5 | Enlarged sternal apodemes for IIvlm2 |
| 6 | Detachment of spiracle lobe from tergum two and partial fusion to Y-lobe |
| 7 | Development of central plate on tergum two |
| **Derbidae (non-Cedusinae)** |  |
| 8 | Y-lobe externally obscure, extremely flat, covered by ridge and membranes |
| 9 | Metathoracic wing stridulatory device |