

Table S1: Principal Component Analysis (PCA) Factor loads for every variable in the seven main clusters Eigen- values for the seven obtained components. The percentage of the variance explained by each axis is also indicated. Strong Interactions in the main three clusters are in bold.

| | Prin1 | Prin2 | Prin3 | Prin4 | Prin5 | Prin6 | Prin7 | Prin8 |
|---------------|----------------|----------------|----------------|----------|----------|----------|----------|----------|
| LNS | 0.2914 | 0.26131 | 0.15393 | 0.29613 | -0.00776 | 0.06439 | -0.05826 | 0.06921 |
| LM1 | 0.11735 | 0.19983 | -0.51919 | -0.07557 | 0.18098 | 0.00953 | 0.33536 | 0.01248 |
| LM2 | 0.22842 | 0.14381 | -0.30789 | 0.17239 | 0.06118 | -0.12142 | -0.21923 | 0.0283 |
| LAM2 | 0.0725 | 0.02792 | 0.07946 | -0.11129 | -0.03783 | -0.11885 | 0.14384 | 0.88693 |
| LBM2 | 0.03681 | 0.01818 | 0.18168 | 0.10403 | 0.51882 | 0.07736 | -0.32926 | -0.0777 |
| RNS | 0.20542 | 0.27855 | 0.27065 | 0.3865 | 0.07813 | 0.13338 | 0.08093 | 0.12319 |
| RM1 | 0.17101 | 0.27187 | -0.45569 | 0.09835 | 0.09523 | 0.11203 | 0.28582 | -0.15112 |
| RM2 | 0.19145 | 0.28375 | -0.12664 | 0.06468 | -0.23761 | 0.05953 | -0.43736 | 0.07552 |
| RAM2 | -0.04873 | -0.17568 | 0.14164 | 0.14981 | -0.30817 | -0.01366 | 0.35868 | -0.22703 |
| RBM2 | -0.01424 | -0.18603 | 0.1267 | 0.13129 | 0.60865 | 0.19808 | 0.12338 | -0.00448 |
| F1 | 0.15515 | 0.31515 | 0.27384 | -0.11069 | -0.28534 | 0.13453 | -0.06765 | -0.219 |
| F2 | 0.21566 | 0.26363 | 0.2228 | -0.47157 | 0.15973 | 0.03599 | 0.03182 | -0.15989 |
| F3 | 0.04716 | 0.22291 | 0.29523 | 0.09196 | -0.01659 | 0.13249 | 0.50749 | 0.01594 |
| Leye | 0.33624 | -0.2707 | 0.01733 | 0.27758 | 0.00464 | -0.32572 | 0.04045 | -0.01767 |
| LNeck | 0.36412 | -0.18703 | 0.04408 | 0.10063 | -0.02303 | -0.40737 | 0.03212 | -0.13776 |
| LForeleg_Rank | 0.38116 | -0.0701 | 0.12744 | -0.28648 | 0.1045 | -0.37499 | 0.07526 | -0.07358 |
| Reye | 0.26749 | -0.34297 | -0.05169 | 0.06338 | -0.12273 | 0.48976 | -0.09374 | 0.0656 |
| RNeck | 0.31783 | -0.32759 | -0.07818 | 0.04364 | -0.14223 | 0.37847 | 0.05753 | 0.00464 |
| RForeleg_Rank | 0.30914 | -0.12599 | -0.02265 | -0.48218 | 0.04247 | 0.23428 | -0.00206 | 0.05902 |
| Eigenvalue | 3.2663 | 2.0764 | 1.8625 | 1.3554 | 1.3146 | 1.2403 | 1.1453 | 1.0141 |
| Percent (%) | 17.191 | 10.928 | 9.803 | 7.134 | 6.919 | 6.528 | 6.028 | 5.338 |
| Cum Percent | 17.191 | 28.12 | 37.922 | 45.056 | 51.975 | 58.503 | 64.531 | 69.868 |