Table S4. Correlation Matrix of free amino acids in honey samples

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | His | Asn | Arg | Ser | Gly | Gln | Asp | Glu | Thr | Ala | Pro | Lys | Tyr | Val | Ile | Leu | Phe | Trp | Nva |
| His | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Asn | 0.793 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Arg | 0.388 | 0.307 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ser | 0.581 | 0.625 | 0.032 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Gly | 0.039 | 0.148 | 0.265 | 0.422 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Gln | 0.537 | 0.601 | 0.148 | 0.97 | 0.439 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Asp | 0.466 | 0.343 | -0.099 | 0.258 | 0.15 | 0.211 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| Glu | 0.666 | 0.53 | 0.039 | 0.436 | -0.134 | 0.449 | 0.724 | 1 |   |   |   |   |   |   |   |   |   |   |   |
| Thr | 0.643 | 0.63 | 0.027 | 0.955 | 0.23 | 0.918 | 0.349 | 0.542 | 1 |   |   |   |   |   |   |   |   |   |   |
| Ala | 0.5 | 0.537 | 0.055 | 0.955 | 0.489 | 0.956 | 0.32 | 0.465 | 0.909 | 1 |   |   |   |   |   |   |   |   |   |
| Pro | 0.617 | 0.591 | 0.097 | 0.667 | 0.14 | 0.655 | 0.626 | 0.695 | 0.768 | 0.766 | 1 |   |   |   |   |   |   |   |   |
| Lys | 0.37 | 0.295 | 0.359 | 0.153 | -0.03 | 0.246 | 0.166 | 0.649 | 0.157 | 0.219 | 0.311 | 1 |   |   |   |   |   |   |   |
| Tyr | 0.237 | 0.532 | -0.003 | 0.54 | 0.215 | 0.532 | -0.115 | 0.256 | 0.449 | 0.552 | 0.384 | 0.272 | 1 |   |   |   |   |   |   |
| Val | 0.044 | 0.205 | -0.133 | 0.637 | 0.458 | 0.623 | -0.06 | 0.147 | 0.536 | 0.706 | 0.408 | 0.115 | 0.842 | 1 |   |   |   |   |   |
| Ile | -0.031 | 0.1 | -0.195 | 0.568 | 0.385 | 0.536 | -0.102 | 0.083 | 0.491 | 0.629 | 0.353 | 0.034 | 0.794 | 0.985 | 1 |   |   |   |   |
| Leu | -0.045 | 0.086 | -0.196 | 0.539 | 0.37 | 0.504 | -0.123 | 0.066 | 0.463 | 0.598 | 0.328 | 0.033 | 0.796 | 0.98 | 0.999 | 1 |   |   |   |
| Phe | 0.426 | 0.736 | 0.219 | 0.194 | -0.136 | 0.209 | -0.09 | 0.312 | 0.15 | 0.142 | 0.219 | 0.401 | 0.714 | 0.231 | 0.146 | 0.154 | 1 |   |   |
| Trp | 0.389 | 0.667 | 0.251 | -0.029 | -0.225 | -0.017 | -0.058 | 0.264 | -0.048 | -0.095 | 0.075 | 0.371 | 0.516 | -0.012 | -0.088 | -0.074 | 0.956 | 1 |   |
| Nva | -0.165 | -0.041 | -0.213 | 0.472 | 0.455 | 0.45 | -0.131 | -0.02 | 0.368 | 0.558 | 0.25 | -0.029 | 0.717 | 0.963 | 0.982 | 0.981 | 0.038 | -0.184 | 1 |