**Table S1 Inter- character association**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Traits** |  | **DFF** | **DF50** | **DFP** | **LI** | **NFPI** | **NPPI** | **PL** | **PW** | **PW10** | **SW100** | **PC** | **DMC** | **CC** | **PYPP** | **PYPPL** | **PYPH** |
| **DFF** | G | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **DF50** | G | 1.05\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P | 0.66\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **DFP** | G | 0.93\*\* | 0.96\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P | 0.57\*\* | 0.63\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **LI** | G | -0.81\*\* | -0.87\*\* | -0.70\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| P | -0.57\*\* | -0.58\*\* | -0.60\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| **NFPI** | G | -0.41 | -0.46\* | -0.37 | 0.80\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |
| P | -0.28\*\* | -0.32\*\* | -0.34\*\* | 0.75\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |
| **NPPI** | G | -0.21 | -0.15 | -0.03 | 0.56\*\* | 0.79\*\* | 1 |  |  |  |  |  |  |  |  |  |  |
| P | -0.15 | -0.08 | -0.01 | 0.53\*\* | 0.72\*\* | 1 |  |  |  |  |  |  |  |  |  |  |
| **PL** | G | -0.14 | -0.24 | -0.42 | 0.11 | 0.06 | -0.23 | 1 |  |  |  |  |  |  |  |  |  |
| P | -0.12 | -0.20\* | -0.37\*\* | 0.11 | 0.07 | -0.20\* | 1 |  |  |  |  |  |  |  |  |  |
| **PW** | G | 0.36 | 0.36 | 0.33 | -0.22 | 0.14 | 0.18 | -0.08 | 1 |  |  |  |  |  |  |  |  |
| P | 0.25\*\* | 0.22\* | 0.26\*\* | -0.17 | 0.09 | 0.16 | -0.03 | 1 |  |  |  |  |  |  |  |  |
| **PW10** | G | -0.44\* | -0.48\* | -0.64\*\* | 0.21 | 0.07 | -0.11 | 0.55\*\* | -0.38 | 1 |  |  |  |  |  |  |  |
| P | -0.28\*\* | -0.34\*\* | -0.51\*\* | 0.20\* | 0.06 | -0.10 | 0.50\*\* | -0.31\*\* | 1 |  |  |  |  |  |  |  |
| **SW100** | G | -0.52\* | -0.39 | -0.44\* | 0.21 | 0.18 | 0.31 | 0.10 | -0.03 | 0.45\* | 1 |  |  |  |  |  |  |
| P | -0.35\*\* | -0.23\*\* | -0.32\*\* | 0.18\* | 0.15 | 0.29\*\* | 0.10 | -0.02 | 0.37\*\* | 1 |  |  |  |  |  |  |
| **PC** | G | -0.46\* | -0.47\* | -0.73\*\* | 0.33 | 0.08 | -0.18 | 0.59\*\* | -0.27 | 0.50\* | 0.38 | 1 |  |  |  |  |  |
| P | -0.30\*\* | -0.29\*\* | -0.61\*\* | 0.30\*\* | 0.08 | -0.15 | 0.49\*\* | -0.23\* | 0.43\*\* | 0.32\*\* | 1 |  |  |  |  |  |
| **DMC** | G | 0.26 | 0.29 | 0.36 | 0.01 | 0.26 | 0.31 | -0.39 | 0.50\* | -0.45\* | 0.01 | -0.19 | 1 |  |  |  |  |
| P | 0.18\* | 0.20\* | 0.32\*\* | 0.01\*\* | 0.23\*\* | 0.28\*\* | -0.34\*\* | 0.42\*\* | -0.41\*\* | 0.01 | -0.18\* | 1 |  |  |  |  |
| **CC** | G | -0.13 | -0.01 | -0.10 | -0.20 | -0.58\*\* | -0.52\* | 0.17 | -0.48\* | 0.21 | -0.09 | 0.16 | -0.47\* | 1 |  |  |  |
| P | -0.05 | -0.02 | -0.03 | -0.17 | -0.46\*\* | -0.40\*\* | 0.14 | -0.34\*\* | 0.19\* | -0.05 | 0.10 | -0.36\*\* | 1 |  |  |  |
| **PYPP** | G | -0.66\*\* | -0.66\*\* | -0.62\*\* | 0.50\* | 0.36 | 0.20 | 0.33 | -0.15 | 0.75\*\* | 0.50\* | 0.47\* | -0.01 | 0.02 | 1 |  |  |
| P | -0.49\*\* | -0.44\*\* | -0.53\*\* | 0.48\*\* | 0.34\*\* | 0.19\* | 0.31\*\* | -0.12 | 0.71\*\* | 0.44\*\* | 0.42\*\* | -0.01 | 0.01 | 1 |  |  |
| **PYPPL** | G | -0.67\*\* | -0.66\*\* | -0.61\*\* | 0.50\* | 0.37 | 0.21 | 0.34 | -0.15 | 0.75\*\* | 0.50\* | 0.46\* | -0.02 | 0.02 | 1.00\*\* | 1 |  |
| P | -0.49\*\* | -0.44\*\* | -0.52\*\* | 0.48\*\* | 0.35\*\* | 0.20\* | 0.32\*\* | -0.13 | 0.71\*\* | 0.45\*\* | 0.41\*\* | -0.02 | 0.01 | 1.00\*\* | 1 |  |
| **PYPH** | G | -0.67\*\* | -0.66\*\* | -0.61\*\* | 0.50\* | 0.37 | 0.21 | 0.34 | -0.15 | 0.75\*\* | 0.50\* | 0.46\* | -0.02 | 0.02 | 1.00\*\* | 1.00\*\* | 1 |
| P | -0.49\*\* | -0.44\*\* | -0.52\*\* | 0.48\*\* | 0.35\*\* | 0.20\* | 0.32\*\* | -0.13 | 0.71\*\* | 0.45\*\* | 0.41\*\* | -0.02 | 0.01 | 1.00\*\* | 1.00\*\* | 1 |

\*, \*\* significant at 5% and 1% level of significance