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| S4 Table. Results from multiple Mantel test correlating phytochemical and genetic distance matrices generated from alfalfa (*Medicago sativa*) individuals sourced from five populations (see main text for locations). Phytochemistry data consisted of a matrix of peak intensity for 49 compounds (HPLC data standardized by dry weight); and, genetic data consisted of a pairwise genetic covariance matrix (generated using 16,920 SNVs). Both matrices were converted to distance matrices using a Euclidean distance measure, then analyzed with a multiple mantel test (1,000 permutations). Correlation coefficients using both Pearson’s product-moment correlation and Spearman’s rank correlation are given along with corresponding p values.  |
| Site | r (Pearson’s) | p | rho (Spearman’s) | p |
| AFAL | -0.26 | 0.83 | -0.14 | 0.71 |
| AWFS | -0.01 | 0.55 | -0.02 | 0.53 |
| VUH | 0.13 | 0.21 | 0.18 | 0.14 |
| GVL | 0.27 | 0.04 | 0.21 | 0.06 |
| SCC | -0.14 | 0.81 | -0.20 | 0.90 |