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| **Table S4** Correlations of spatial, soil and climatic variables with non-metric dimensional scale (Sorensen distance) revealed by environmental fitting test. |
| Variable | NMDS1 | NMDS2 | *R*2 | *P* |
| PCNM | -0.908  | -0.419  | 0.621  | 0.003  |
| MAT | -0.966  | 0.259  | 0.699  | 0.001  |
| MAP | 0.974  | -0.228  | 0.696  | 0.001  |
| pH | 0.102  | 0.995  | 0.552  | 0.001  |
| N | 0.881  | -0.472  | 0.708  | 0.001  |
| P | 0.944  | -0.331  | 0.703  | 0.001  |
| K | -0.369  | 0.929  | 0.632  | 0.001  |
| OM | 0.419  | -0.908  | 0.643  | 0.001  |
| PCNM, principal coordinates of neighbor matrices; MAT, mean annual temperature; MAP, mean annual precipitation; N, soil total nitrogen; P, soil total phosphorus; K, soil total potassium; OM, soil total organic matter |